



Vol ø135 mm

Downlight Vol ø135 mm 10.7W Blanc chaud - 3 000 K CRI 80 72.1° ON-OFF Blanc IP54 847lm

Caractéristiques techniques

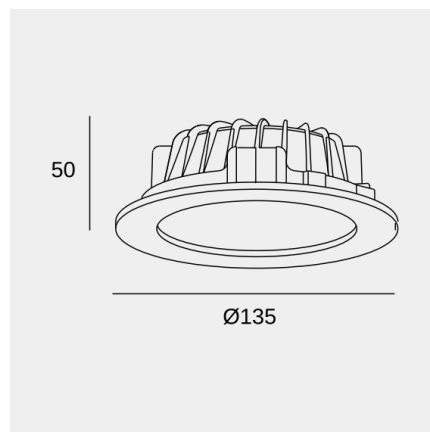
Puissance totale du luminaire: 10.7W
Lumens réels: 847
Lm/W réels: 79
Température de couleur corrélée (CCT): Blanc chaud - 3 000 K
Angle des lentilles/Réflecteur: FLOOD 72°
Matière de la structure: Aluminium
Finition structure: Blanc
Matière du diffuseur: PMMA
Finition diffuseur: Opale
Marque Driver: VOSSLOH-SCHWABE
Tension/Fréquence: 100-240V/50-60Hz
Protocole de variation: ON-OFF
Power Factor: 0.81
Durée de vie: 50,000h L80B20
Garantie: 5 ans



Caractéristiques luminotechniques

CRI: 80
MacAdam steps: 3
Risque photobiologique: RG1

Douille	Quantité	Puissance source lumineuse (W)	Température de couleur corrélée (CCT)
LED	1	8.4W	Blanc chaud - 3 000 K



Il se peut que l'image ne corresponde pas à la référence. LedsC4 se réserve le droit de modifier l'un des éléments qui composent le produit. Les données relatives au flux, à la puissance et à la température de couleur peuvent être modifiées par le fabricant.



Vol ø135 mm

Downlight Vol ø135 mm 10.7W Blanc chaud - 3 000 K CRI 80 72.1° ON-OFF Blanc IP54 847lm

Application du luminaire



Il se peut que l'image ne corresponde pas à la référence. LedsC4 se réserve le droit de modifier l'un des éléments qui composent le produit. Les données relatives au flux, à la puissance et à la température de couleur peuvent être modifiées par le fabricant.

LedsC4

Luminaire

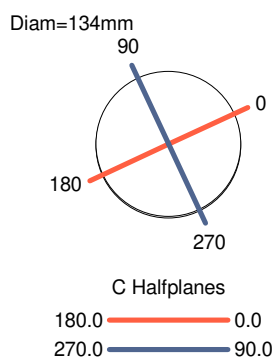
Code 90-4880-14-M3V2
Name VOL

Measurem.

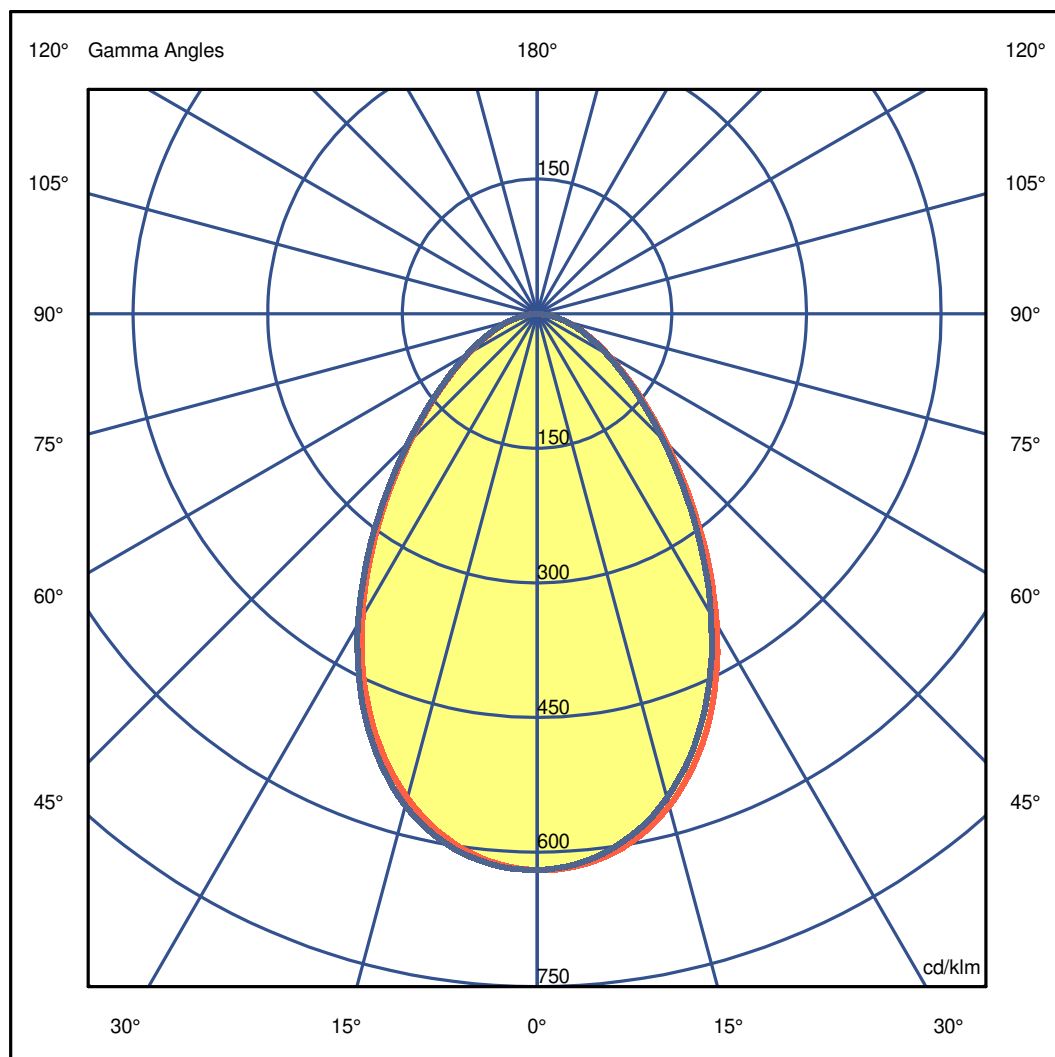
Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG	Asymmetrical
Round Luminaire		Diam.	134 mm	Height	3 mm		
Round Luminous Area		Diam.	80 mm	Height	3 mm		
Horizontal Luminous Area		0.005027 m2		Emitting area on Plane 180°		0.000240 m2	
Emitting area on Plane 0°		0.000240 m2		Emitting area on Plane 270°		0.000240 m2	
Emitting area on Plane 90°		0.000240 m2		Glare area at 76°		0.001449 m2	
Coordinate system		CG		Symmetry Type		Asymmetrical	
Date		27-11-2017		Maximum Gamma Angle		90	
Measurement Distance		0.00		Measurement Flux		847 lm	
Operator				Rated Voltage			
Temperature				Rated Current			
Humidity				Photocell			
Notes							

Luminaire Sources						
Line		Code	Name	Flux [lm]	Pow. [W]	Q.ty
		LED	90-4880-14-M3V2	847.10	10.30	1
C.I.E.	65 89 98 100 100		D DIN 5040	A50		
F UTE	1.00 C		B NBN	BZ 2 / 2 / BZ 3		



ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



Luminaire

Code 90-4880-14-M3V2
Name VOL

Measurment

Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm		Luminaire Power		10.3 W		Efficacy		82.243 lm/W		Efficiency		100.00%
Source Flux	847 lm		Maximum value		620.06 cd/klm		Position		C=210.00 G=1.00		CG Asymmetrical		
Luminous Intensity Table cd/klm Table 1/2													
	C 0.00	C 30.00	C 60.00	C 90.00	C 120.00	C 150.00	C 180.00	C 210.00	C 240.00	C 270.00	C 300.00	C 330.00	
G 0.0	619.81	619.81	619.81	619.81	619.81	619.81	619.81	619.81	619.81	619.81	619.81	619.81	619.81
G 1.0	619.91	619.42	619.56	619.49	618.80	619.69	619.24	620.06	619.66	619.78	620.06	619.56	619.56
G 2.0	619.61	618.28	618.66	618.36	617.44	618.83	618.44	619.62	619.00	619.38	620.02	618.86	618.86
G 3.0	618.78	616.78	617.54	616.77	615.30	617.64	616.84	618.78	618.01	618.53	619.39	617.64	617.64
G 4.0	617.34	614.81	615.94	614.87	613.01	615.81	614.77	617.49	616.16	617.27	618.46	615.89	615.89
G 5.0	615.41	612.31	613.68	612.43	610.23	613.61	612.37	615.83	614.13	615.22	616.95	613.61	613.61
G 6.0	613.07	609.32	610.90	609.52	606.70	610.79	609.26	613.53	611.59	612.77	614.78	610.49	610.49
G 7.0	610.07	605.96	607.68	605.82	602.81	607.58	605.64	610.64	608.45	609.71	611.95	607.15	607.15
G 8.0	606.91	602.14	604.14	601.63	598.20	603.82	601.79	607.18	604.95	606.47	608.88	603.25	603.25
G 9.0	603.02	597.80	599.84	596.84	593.00	599.67	597.12	603.17	600.75	602.72	605.11	599.05	599.05
G 10.0	598.40	592.60	595.12	592.02	587.75	595.17	591.93	598.83	595.96	598.14	601.05	593.88	593.88
G 11.0	593.46	587.31	590.17	586.36	581.88	589.92	586.47	593.99	590.83	593.03	595.98	588.46	588.46
G 12.0	587.75	581.10	584.04	580.43	575.55	583.95	580.41	588.47	585.23	587.40	590.57	581.80	581.80
G 13.0	581.42	574.22	577.50	573.53	568.32	577.91	573.43	582.79	579.12	581.35	584.76	575.26	575.26
G 14.0	574.96	566.49	570.74	566.08	560.43	571.00	566.48	575.97	572.17	574.61	578.05	567.88	567.88
G 15.0	568.02	558.87	563.44	558.21	552.14	563.49	558.63	568.97	564.67	567.47	571.41	560.36	560.36
G 16.0	560.32	550.28	555.69	549.97	543.77	555.48	550.24	561.12	556.90	559.83	564.29	552.35	552.35
G 17.0	551.80	540.81	546.86	540.89	534.95	546.98	541.74	553.18	548.39	551.19	556.39	543.31	543.31
G 18.0	542.71	531.42	537.77	532.23	525.41	538.03	532.62	545.14	539.54	541.87	547.68	534.11	534.11
G 19.0	533.47	521.04	528.30	522.52	515.54	528.12	523.08	535.83	530.21	532.57	538.19	524.07	524.07
G 20.0	523.32	510.10	517.95	511.92	504.58	518.37	512.59	526.48	520.07	522.24	528.96	513.58	513.58
G 21.0	513.25	499.09	507.57	500.98	493.40	507.60	502.43	515.72	509.86	511.92	518.60	503.09	503.09
G 22.0	502.43	487.80	496.70	489.55	481.69	496.42	491.04	505.57	498.62	501.19	508.22	492.18	492.18
G 23.0	490.83	475.95	484.94	478.11	470.07	484.80	479.28	494.20	487.43	489.55	497.50	480.39	480.39
G 24.0	479.09	463.23	473.21	465.72	458.01	473.25	467.73	482.96	475.85	478.03	485.78	468.56	468.56
G 25.0	466.45	450.25	460.39	453.60	445.52	461.53	455.63	471.57	463.16	465.48	473.48	455.91	455.91
G 26.0	453.47	436.91	447.28	440.59	432.18	448.93	443.29	459.25	450.83	452.72	461.49	442.93	442.93
G 27.0	440.82	423.29	433.88	427.95	418.61	436.36	430.00	446.35	437.43	439.58	448.59	429.75	429.75
G 28.0	427.87	409.91	420.81	414.29	405.49	423.04	416.52	433.77	423.62	426.61	436.01	416.58	416.58
G 29.0	413.83	396.22	407.36	400.44	391.44	409.33	403.19	420.26	410.35	413.23	423.09	403.19	403.19
G 30.0	400.22	382.29	393.73	386.97	377.96	396.06	389.26	406.98	396.81	399.63	409.04	389.59	389.59
G 31.0	385.64	367.72	379.35	373.39	364.23	382.71	376.31	393.55	382.92	385.30	394.80	375.27	375.27
G 32.0	371.15	353.21	364.82	359.80	350.65	369.24	361.91	380.00	369.08	370.88	381.10	360.89	360.89
G 33.0	357.28	339.49	351.03	345.62	336.63	355.13	348.37	365.83	354.63	356.46	366.77	346.68	346.68
G 34.0	343.47	325.18	337.26	331.54	322.66	341.13	334.30	351.67	340.19	342.59	352.95	333.01	333.01
G 35.0	329.68	311.59	323.01	317.52	309.50	327.17	320.24	337.44	325.79	329.01	339.22	319.59	319.59
G 36.0	315.41	298.36	309.39	304.59	295.86	314.06	306.95	323.96	312.21	314.86	324.80	305.65	305.65
G 37.0	301.30	284.65	295.54	291.69	283.15	301.13	293.90	310.00	298.94	301.52	311.27	292.42	292.42
G 38.0	287.60	271.13	281.88	278.45	270.68	287.83	280.48	296.96	285.82	287.66	297.35	278.96	278.96
G 39.0	274.12	258.04	268.73	266.06	257.99	275.20	268.00	284.08	272.46	274.17	283.81	265.79	265.79
G 40.0	261.69	245.96	256.56	253.36	246.14	262.30	255.26	270.85	259.25	261.62	271.10	253.62	253.62
G 41.0	249.54	234.24	244.50	241.09	234.18	249.76	242.75	257.85	247.19	249.36	258.63	241.65	241.65
G 42.0	237.82	222.86	232.46	229.67	222.46	238.10	231.39	245.83	234.83	237.53	245.96	230.13	230.13
G 43.0	225.80	211.45	221.16	218.78	211.86	226.80	220.28	234.11	223.50	225.47	234.22	218.43	218.43
G 44.0	214.25	200.46	209.73	208.21	202.08	216.03	209.62	222.85	212.64	213.88	222.31	207.28	207.28
G 45.0	203.76	190.57	199.47	197.68	191.82	205.19	198.96	211.58	202.17	202.88	210.84	196.61	196.61
G 46.0	193.13	180.59	189.16	187.54	181.91	194.77	189.19	200.84	191.62	192.82	200.46	187.04	187.04
G 47.0	183.57	171.59	179.75	177.91	172.56	184.80	179.38	190.51	181.56	183.14	190.55	177.63	177.63
G 48.0	174.36	162.96	170.66	169.12	163.91	175.61	169.98	181.03	172.00	173.47	180.39	168.26	168.26
G 49.0	165.16	154.35	161.73	160.32	155.34	166.45	161.00	171.55	163.24	164.65	171.37	159.67	159.67
G 50.0	156.79	146.10	153.16	152.28	147.48	158.18	152.83	162.93	154.92	155.82	162.18	151.20	151.20
G 51.0	148.51	138.25	145.06	144.58	140.05	150.15	144.98	154.64	146.87	147.32	153.51	143.07	143.07
G 52.0	140.58	131.13	137.67	136.91	132.47	142.21	137.56	146.35	138.93	139.69	145.64	135.70	135.70
G 53.0	133.37	124.41	130.68	129.92	125.70	134.48	130.12	138.41	131.40	132.44	137.75	128.72	128.72
G 54.0	126.55	117.96	123.99	122.89	118.82	127.57	122.95	131.25	124.55	125.45	130.61	122.00	122.00
G 55.0	119.99	111.84	117.28	116.58	112.65	120.92	116.52	124.40	117.60	118.81	123.75	115.65	115.65
G 56.0	113.42	105.78	111.15	110.23	106.43	114.30	110.43	117.60	111.35	112.27	116.90	109.23	109.23
G 57.0	107.21	100.05	105.17	104.57	100.89	108.36	104.57	111.46	105.52	106.06	110.72	103.28	103.28
G 58.0	101.60	94.85	99.35	99.12	95.59	102.69	98.73	105.55	99.88	100.20	104.60	97.59	97.59
G 59.0	96.01	89.64	94.13	93.70	90.23	96.97	93.23	99.64	94.31	94.78	99.01	92.44	92.44
G 60.0	90.95	84.92	89.22	88.57	85.12	91.51	88.25	94.07	88.94	89.74	93.75	87.58	87.58
G 61.0	86.11	80.45	84.55	83.64	80.51	86.41	83.18	88.85	83.88	84.67	88.52	82.80	82.80
G 62.0	81.31	75.89	79.76	79.19	75.92	81.76	78.47	84.02	79.19	80.06	83.71	78.16	78.16
G 63.0	76.70	71.53	75.34	74.83	71.75	77.31	74.26	79.41	74.76	75.45	78.94	73.62	73.62
G 64.0	72.53	67.56	71.02	70.52	67.74	72.73	69.92	74.72	70.59	70.99	74.40	69.25	69.25
G 65.0	68.23	63.49	67.06	66.57	63.67	68.65	65.89	70.59	66.37	66.97	70.23	65.30	65.30
G 66.0	64.46	59.86	63.32	62.50	59.95	64.42	61.78	66.22	62.49	63.12	66.04	61.55	61.55
G 67.0	60.68	56.33	59.69	58.91	56.15	60.66	57.91	62.40	58.61	59.39	62.46	57.88	57.88
G 68.0	57.07	52.95	56.10	55.24	52.70	56.92	54.48	58.56	55.07	55.67	58.58	54.39	54.39
G 69.0	53.43	49.47	52.56	51.92	49.								

Luminaire

Code 90-4880-14-M3V2
Name VOL

Measurem.

Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG Asymmetrical	

Luminous Intensity Table cd/klm Table 2/2

	C 0.00	C 30.00	C 60.00	C 90.00	C 120.00	C 150.00	C 180.00	C 210.00	C 240.00	C 270.00	C 300.00	C 330.00
G 73.0	40.13	36.86	39.54	38.88	36.46	40.07	38.23	41.43	38.64	39.27	41.62	37.89
G 74.0	37.02	33.93	36.43	35.71	33.50	37.03	35.05	38.29	35.66	36.29	38.35	35.03
G 75.0	33.98	30.96	33.44	32.68	30.67	33.95	32.21	35.29	32.70	33.33	35.33	32.03
G 76.0	30.80	27.96	30.33	29.83	27.85	30.98	29.31	32.27	29.93	30.45	32.22	29.05
G 77.0	27.81	25.16	27.33	26.86	24.96	28.08	26.49	29.39	27.05	27.45	29.20	26.10
G 78.0	24.93	22.23	24.46	23.84	22.18	25.03	23.63	26.42	24.25	24.75	26.26	23.25
G 79.0	22.01	19.58	21.48	20.88	19.26	21.10	20.91	23.46	21.37	21.99	23.39	20.49
G 80.0	19.20	16.85	18.77	18.02	16.53	17.21	18.07	20.57	18.69	19.33	20.54	17.81
G 81.0	16.32	14.13	15.81	15.17	13.83	13.38	15.42	17.75	15.97	16.55	17.75	15.19
G 82.0	13.58	11.50	13.02	12.45	11.21	10.17	12.86	15.08	13.47	13.92	14.89	12.49
G 83.0	10.84	8.88	10.30	9.78	8.76	7.78	10.33	12.31	10.92	11.36	12.18	9.88
G 84.0	8.25	6.38	7.63	7.30	6.41	5.70	7.86	9.72	8.42	8.94	9.54	7.50
G 85.0	5.80	4.22	5.27	4.86	4.14	3.73	5.60	7.23	6.17	6.57	7.15	5.26
G 86.0	3.58	2.12	3.01	2.50	2.01	1.94	3.34	4.88	3.88	4.43	4.88	3.14
G 87.0	1.25	0.04	0.63	0.28	0.00	0.09	1.25	2.56	1.79	2.30	2.56	1.03
G 88.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.36	0.22	0.00
G 89.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

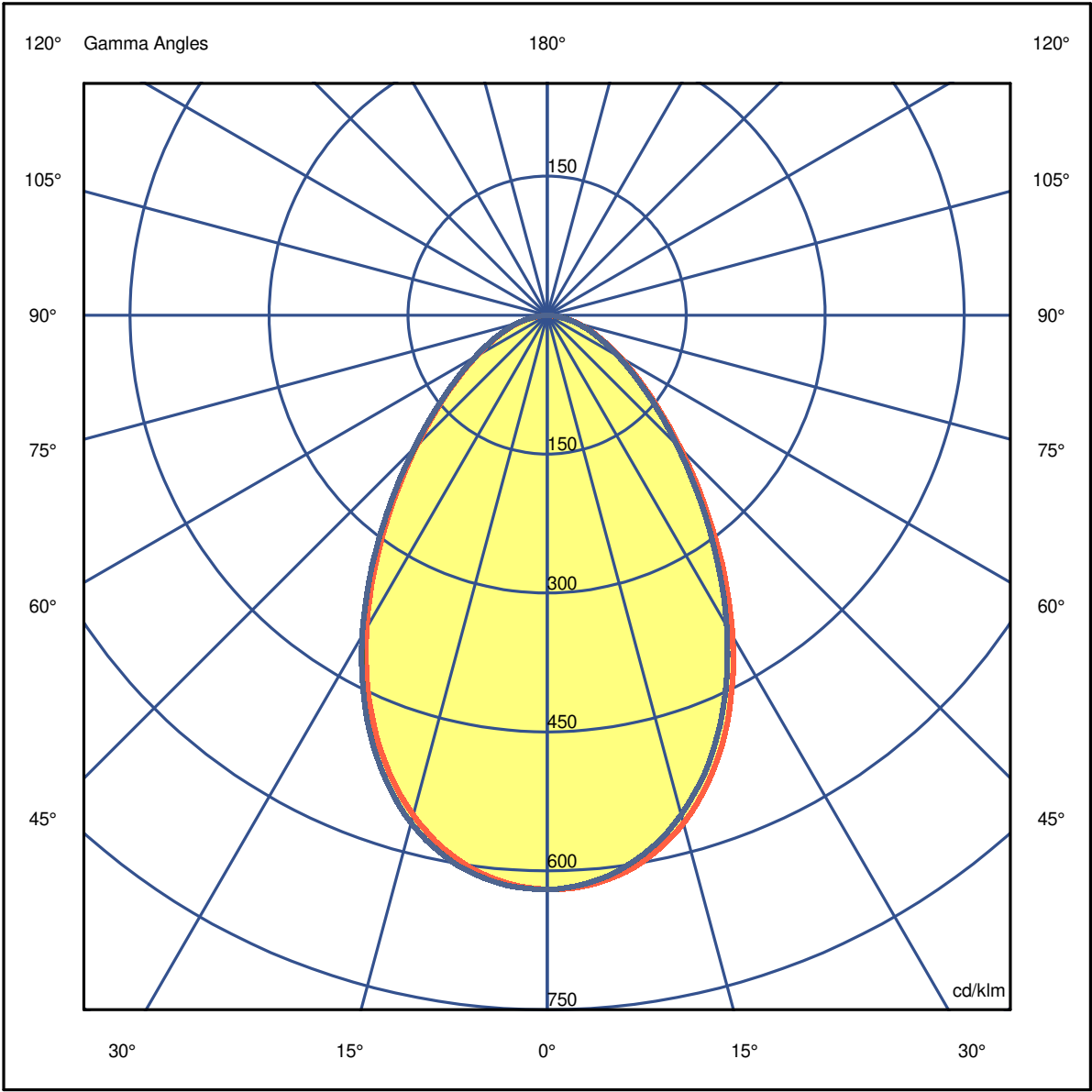
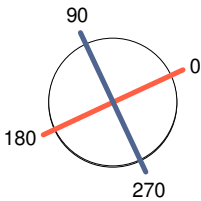
Luminaire
Code 90-4880-14-M3V2
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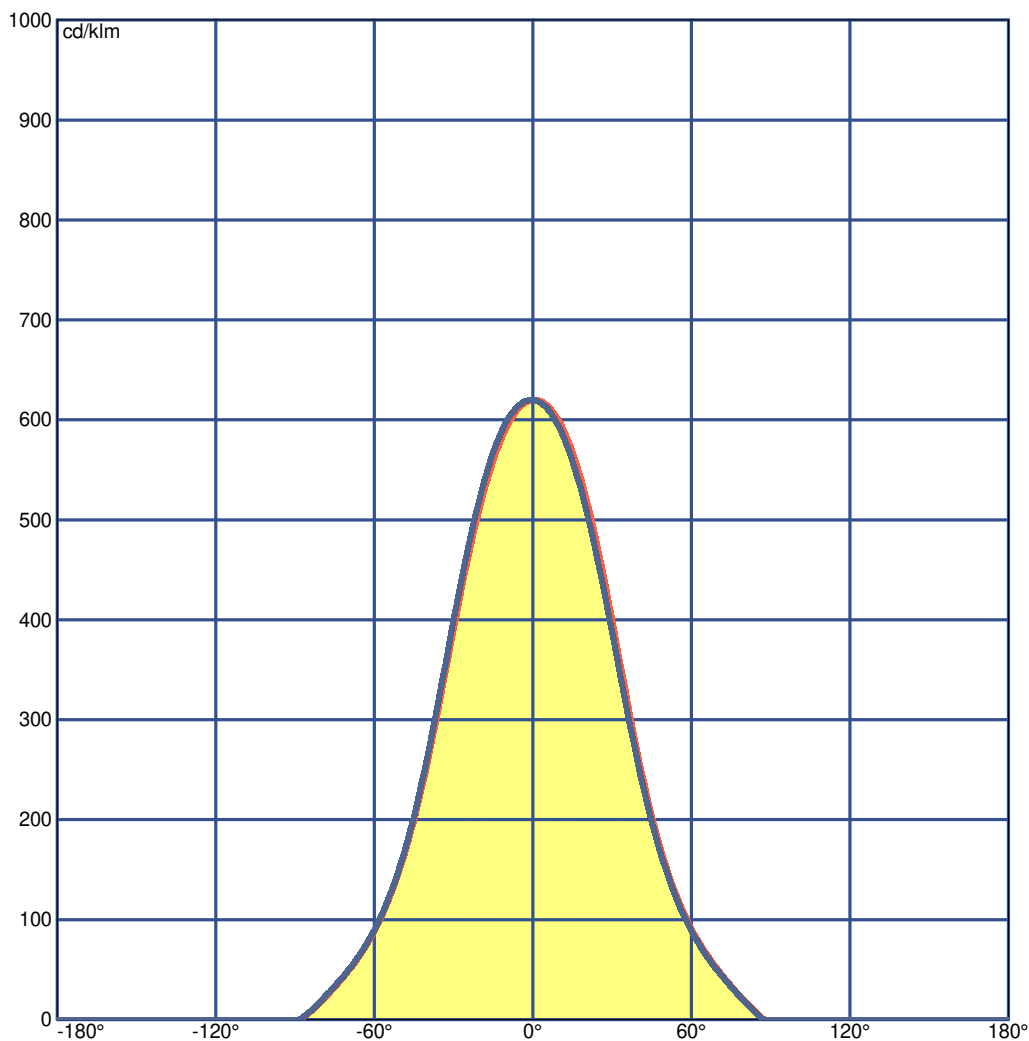
Diam=134mm

C Halfplanes

180.0 ————— 0.0
270.0 ————— 90.0



Luminaire							
Code	90-4880-14-M3V2						
Name	VOL						
Measurem.							
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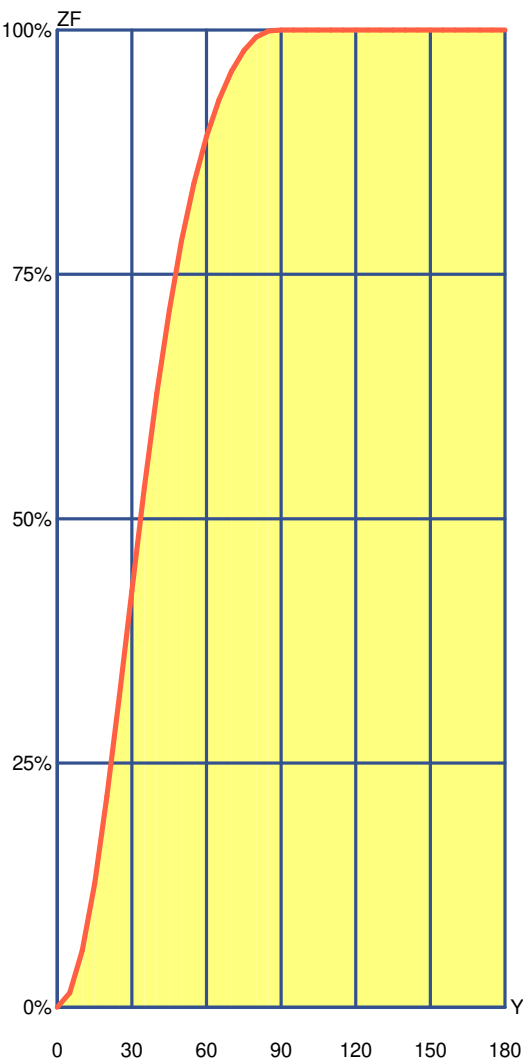
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UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	23.9	25.0	24.2	25.2	25.4	23.9	25.0	24.2	25.2	25.5
x=2H y=3H	24.8	25.7	25.1	26.0	26.2	24.8	25.8	25.1	26.0	26.3
x=2H y=4H	25.1	26.0	25.4	26.3	26.6	25.1	26.0	25.5	26.3	26.6
x=2H y=6H	25.3	26.1	25.6	26.4	26.7	25.4	26.2	25.7	26.5	26.8
x=2H y=8H	25.3	26.2	25.7	26.4	26.8	25.4	26.2	25.8	26.5	26.8
x=2H y=12H	25.4	26.1	25.7	26.4	26.8	25.4	26.2	25.8	26.5	26.8
x=4H y=2H	24.3	25.2	24.6	25.5	25.8	24.3	25.2	24.7	25.5	25.8
x=4H y=3H	25.4	26.1	25.7	26.5	26.8	25.4	26.1	25.8	26.5	26.8
x=4H y=4H	25.8	26.5	26.2	26.8	27.2	25.8	26.5	26.2	26.9	27.2
x=4H y=6H	26.1	26.7	26.5	27.1	27.5	26.2	26.8	26.6	27.1	27.5
x=4H y=8H	26.2	26.7	26.6	27.1	27.5	26.3	26.8	26.7	27.2	27.6
x=4H y=12H	26.2	26.7	26.7	27.1	27.5	26.3	26.8	26.7	27.2	27.6
x=8H y=4H	26.0	26.5	26.4	26.9	27.3	26.0	26.5	26.4	26.9	27.3
x=8H y=6H	26.4	26.8	26.8	27.2	27.7	26.4	26.9	26.9	27.3	27.7
x=8H y=8H	26.5	26.9	27.0	27.3	27.8	26.6	27.0	27.1	27.4	27.9
x=8H y=12H	26.5	26.9	27.0	27.3	27.8	26.6	27.0	27.1	27.4	27.9
x=12H y=4H	26.0	26.4	26.4	26.8	27.3	26.0	26.5	26.4	26.9	27.3
x=12H y=6H	26.4	26.8	26.9	27.2	27.7	26.5	26.8	26.9	27.3	27.8
x=12H y=8H	26.5	26.8	27.0	27.3	27.8	26.6	26.9	27.1	27.4	27.9

Luminaire							
Code	90-4880-14-M3V2						
Name	VOL						
Measur.							
Code	90-4880-14-M3V2						
Name	VOL						
Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG	Asymmetrical

Total Flux=847.10 Luminaire Flux=847.10																			
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00							
DRR	0.45	0.53	0.59	0.66	0.70	0.78	0.82	0.86	0.89	0.91	0.96	0.98							
RC	3	2	2	2	2	2	2	2	2	2	2	1							
Zonal Flux per 1000 Lumen																			
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
ZF(Y)	58	216	426	629	784	891	958	993	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
CIE Flux Codes																			
65 89 98 100 100																			
C.I.E.	3/2/2/2/2/2/2/2/2/1												LOR	100.00000 %					
D DIN 5040	A50												ULOR	0.00000 %					
F UTE	1.00 C												DLOR	100.00000 %					
B NBN	BZ 2 / 2 / BZ 3												UFF	0.00000 %					
RN	0.00000 %												DFF	100.00000 %					
BLF	1.0												FFR	0.00000 %					



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	14.75	14.75	1.47 %	1.47 %
10°	43.25	57.99	4.32 %	5.80 %
15°	68.70	126.70	6.87 %	12.67 %
20°	89.06	215.76	8.91 %	21.58 %
25°	102.53	318.30	10.25 %	31.83 %
30°	108.00	426.29	10.80 %	42.63 %
35°	105.52	531.81	10.55 %	53.18 %
40°	96.78	628.59	9.68 %	62.86 %
45°	84.55	713.14	8.46 %	71.31 %
50°	71.35	784.50	7.14 %	78.45 %
55°	58.83	843.33	5.88 %	84.33 %
60°	47.60	890.92	4.76 %	89.09 %
65°	37.76	928.68	3.78 %	92.87 %
70°	29.13	957.82	2.91 %	95.78 %
75°	21.28	979.09	2.13 %	97.91 %
80°	13.75	992.84	1.38 %	99.28 %
85°	6.36	999.20	0.64 %	99.92 %
90°	0.80	1000.00	0.08 %	100.00 %
95°	0.00	1000.00	0.00 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

Luminaire

Code 90-4880-14-M3V2
Name VOL

Measurem.

Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG Asymmetrical	

Utilizations CIE

Mounting	Direct				Normalization				Normalised				Suspension Ratio d/3								Standard CIE Settings							
Ceiling																												
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000					
0.60	198	178	144	130	170	124	105	90	75	64	41	31	17	12	60	33	29	14	11	28	12	10	0					
0.80	231	212	153	141	202	135	134	117	86	75	50	40	24	18	70	42	38	20	17	36	17	15	0					
1.00	254	236	153	144	224	138	157	140	91	82	57	47	30	23	77	49	45	26	22	42	23	20	0					
1.25	274	258	151	143	245	138	181	165	96	88	63	54	37	30	82	55	51	33	29	49	29	26	0					
1.50	289	274	148	142	261	136	201	185	99	91	68	59	43	36	86	60	57	39	34	54	35	32	0					
2.00	308	296	140	135	283	131	230	215	100	95	75	67	53	46	90	67	64	48	44	61	44	41	0					
2.50	321	311	134	130	297	126	251	238	101	96	79	73	61	54	92	73	70	56	52	67	52	48	0					
3.00	331	322	129	126	307	123	267	255	101	97	83	77	66	60	93	76	74	62	58	71	58	54	0					
4.00	344	337	124	122	323	119	290	279	103	100	88	83	75	69	95	82	80	70	67	77	66	63	0					
5.00	353	347	121	120	333	117	305	296	103	101	91	87	80	75	97	86	84	76	73	81	72	69	0					
10.00	372	369	115	114	354	112	339	334	105	104	99	96	92	89	101	95	94	89	87	91	86	83	0					
20.00	383	381	111	110	366	109	358	355	106	105	103	102	100	98	102	100	99	97	96	97	94	91	0					

Wall

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	404	394	336	329	388	325	305	298	262	257	220	216	189	187	255	216	215	188	187	214	187	186	166
0.80	450	439	360	354	430	349	350	341	291	286	250	245	219	216	282	245	243	217	215	242	215	214	189
1.00	477	466	369	363	455	358	380	370	306	300	267	262	237	233	296	261	259	234	232	257	232	231	203
1.25	501	490	374	369	477	363	407	396	317	312	282	276	253	249	307	275	273	250	248	270	247	245	214
1.50	518	507	377	372	492	366	427	417	325	320	292	287	265	261	314	285	283	261	259	280	258	255	222
2.00	529	520	366	362	502	356	447	436	323	319	296	291	273	269	312	288	286	268	266	282	264	260	223
2.50	534	525	355	352	505	346	458	448	319	316	296	292	276	271	307	288	286	270	268	280	265	260	220
3.00	533	526	344	342	505	335	463	454	313	310	293	289	275	271	301	284	282	269	266	276	263	257	215
4.00	541	535	337	335	511	329	477	469	311	309	295	291	281	276	299	285	284	273	270	277	266	260	215
5.00	546	541	333	331	516	325	487	480	310	308	297	294	285	281	298	287	286	276	274	278	269	262	215
10.00	550	547	317	316	519	309	503	498	302	301	294	292	287	285	290	283	282	277	275	273	268	259	208
20.00	530	528	284	284	498	278	489	486	274	273	270	269	266	265	262	258	258	255	254	247	245	235	182

Working Pl.

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	700	688	653	645	681	640	581	573	559	554	505	501	465	463	551	501	499	464	463	498	463	462	448
0.80	797	784	734	726	773	719	674	664	637	637	588	582	546	543	631	582	580	544	543	578	542	541	526
1.00	874	861	797	789	846	781	751	740	711	704	658	652	617	613	697	651	648	614	612	645	611	609	595
1.25	944	930	851	844	912	835	824	811	772	765	723	716	683	678	756	713	711	679	676	706	675	672	658
1.50	995	982	889	883	961	873	878	865	816	810	770	763	733	727	799	760	757	727	724	751	722	718	704
2.00	1000	1000	943	938	1000	927	962	948	881	876	843	836	811	804	863	831	828	803	799	820	796	790	777
2.50	1000	1000	975	971	1000	960	1000	1000	922	917	890	883	862	855	903	876	873	852	848	864	843	835	824
3.00	1000	1000	996	993	1000	982	1000	1000	950	946	922	916	898	891	931	907	905	886	882	894	876	867	856
4.00	1000	1000	1000	1000	1000	1000	1000	1000	982	978	960	954	940	933	962	943	941	926	922	928	914	903	893
5.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	998	982	977	965	959	980	964	962	950	947	949	936	924	914
10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	991	984	968	958
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	992	982

LM53 SHR C0-C180: 1.019 SHR C90-C270: 0.997 SHR Square: 1.045

LedsC4

Luminaire

Code 90-4880-14-M3V2
Name VOL

Measurem.

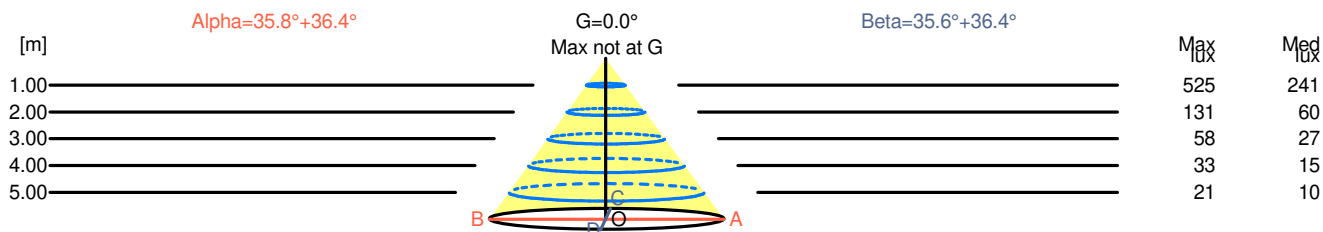
Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG Asymmetrical	

Width at 50.00 % of Max Intensity

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.74	1.47	2.21	2.95	3.68	OC	0.72	1.43	2.15	2.86	3.58
OB	0.72	1.44	2.16	2.88	3.60	OD	0.74	1.47	2.21	2.95	3.68

	0	5	15	25	35	45	55	65	75	85
OA	525.04	521.31	481.17	395.13	279.27	172.61	101.64	57.79	28.79	4.91
OB	525.04	518.74	473.21	385.96	271.28	168.54	98.71	55.82	27.28	4.74
OC	525.04	518.79	472.86	384.24	268.97	167.46	98.75	56.39	27.68	4.11
OD	525.04	521.16	480.70	394.31	278.70	171.86	100.64	56.73	28.23	5.56



H[m]	D[m]	Max lux	Med lux	Alpha=35.8°+36.4°	G=0.0 Max not at G	
1.00	1.46	525	241			
2.00	2.91	131	60			
3.00	4.37	58	27			
4.00	5.83	33	15			
5.00	7.29	21	10			

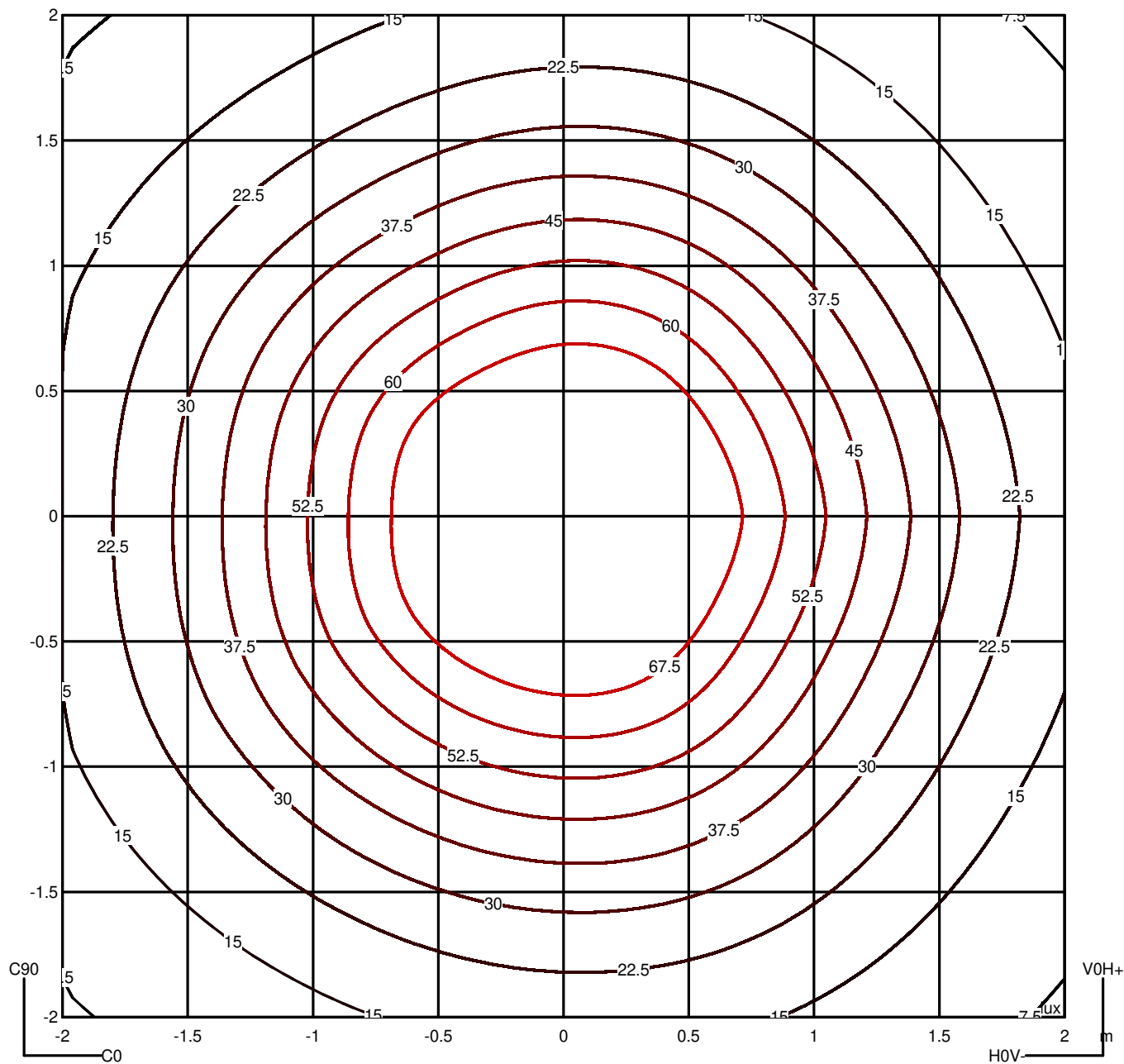
H[m]	D[m]	Max lux	Med lux	Beta=36.4°+35.6°	G=0.0 Max not at G	
1.00	1.45	525	241			
2.00	2.90	131	60			
3.00	4.36	58	27			
4.00	5.81	33	15			
5.00	7.26	21	10			

Luminaire
Code 90-4880-14-M3V2
Name VOL
Measurement
Code 90-4880-14-M3V2
Name VOL

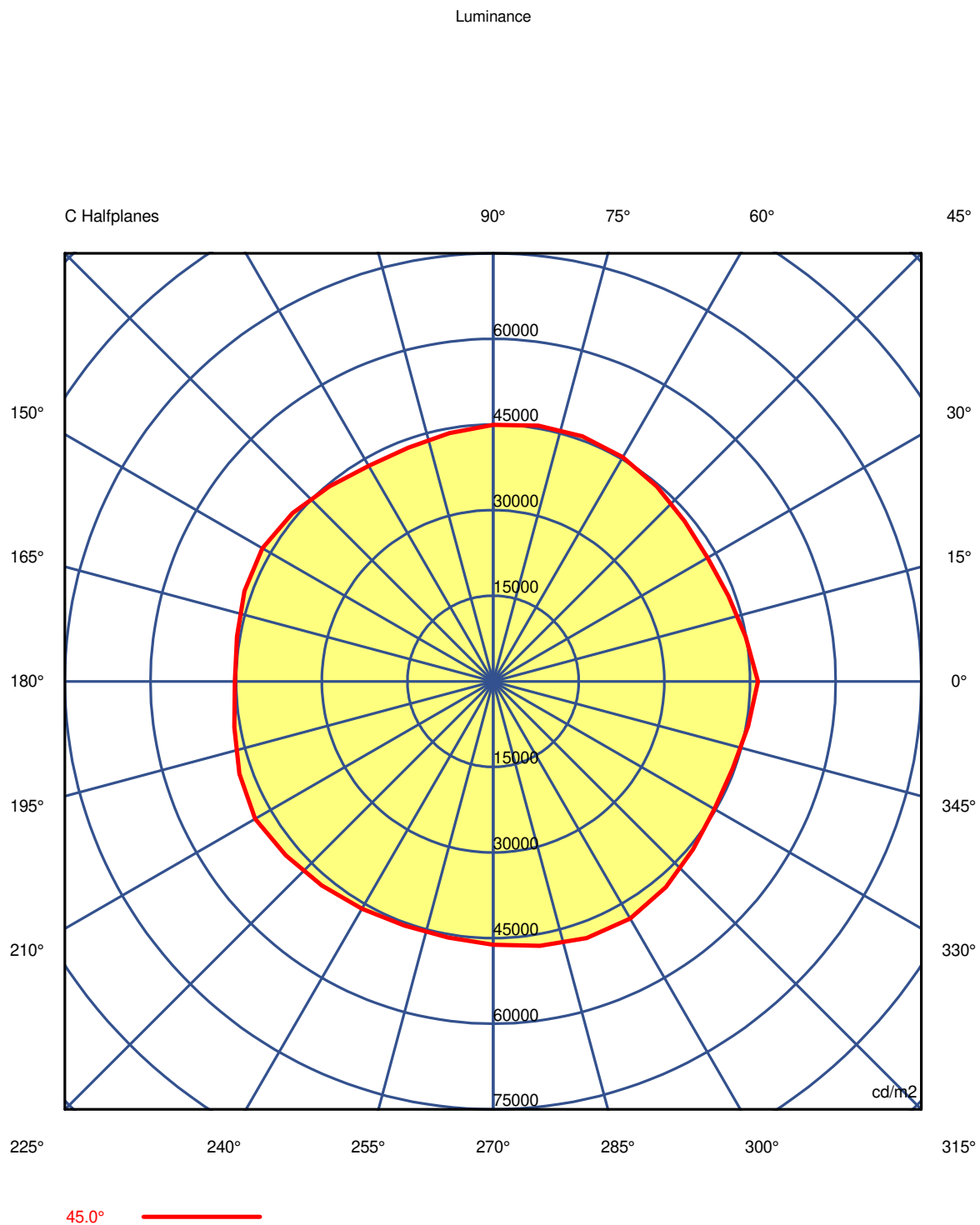
Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG	Asymmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire							
Code	90-4880-14-M3V2						
Name	VOL						
Measurem.							
Code	90-4880-14-M3V2						
Name	VOL						
Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG	Asymmetrical



Luminaire

Code 90-4880-14-M3V2
Name VOL

Measurerm.

Code 90-4880-14-M3V2
Name VOL

Luminaire Flux		847 lm	Luminaire Power			10.3 W	Efficacy		82.243 lm/W		Efficiency		100.00%
Source Flux		847 lm	Maximum value			620.06 cd/klm	Position		C=210.00 G=1.00		CG Asymmetrical		
Luminance cd/m2 Table 1/3													
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90
G 5.0	103675.16	103434.70	103243.98	103152.75	103188.88	103292.79	103383.03	103393.58	103320.09	103173.63	102979.95	102823.43	102803.15
G 10.0	101545.45	101090.45	100730.81	100561.90	100635.97	100832.87	100989.37	100974.80	100788.84	100463.75	100060.02	99751.03	99738.40
G 15.0	97850.91	97108.73	96529.00	96274.14	96431.71	96789.62	97060.90	97020.66	96692.29	96161.28	95546.71	95102.12	95114.65
G 20.0	92249.21	91134.25	90272.87	89918.68	90209.27	90818.30	91303.47	91320.53	90917.58	90240.79	89470.31	88922.21	88946.51
G 25.0	84846.35	83427.79	82336.13	81898.28	82291.78	83096.71	83743.78	83791.98	83313.42	82508.51	81610.93	80987.56	81038.55
G 30.0	75791.19	74157.25	72899.86	72395.54	72850.33	73788.13	74562.37	74668.84	74173.02	73282.79	72252.43	71521.74	71576.92
G 35.0	65631.84	63906.50	62574.61	62029.59	62489.05	63467.21	64302.47	64476.79	64046.47	63211.39	62220.95	61522.69	61613.65
G 40.0	55353.57	53755.52	52524.18	52026.28	52468.03	53413.61	54266.70	54552.53	54282.69	53590.30	52673.46	51990.01	52062.73
G 45.0	46350.10	44913.21	43803.56	43348.39	43733.87	44581.82	45372.98	45690.11	45523.95	44967.26	44177.67	43572.34	43633.29
G 50.0	38893.78	37632.08	36653.71	36241.98	36559.93	37289.46	37992.18	38311.87	38220.96	37774.02	37090.16	36546.54	36584.87
G 55.0	33004.54	31935.80	31107.80	30761.28	31034.83	31658.46	32260.04	32536.13	32458.14	32066.20	31458.83	30968.23	30984.99
G 60.0	28314.69	27411.38	26715.82	26435.79	26690.47	27244.72	27774.87	28016.00	27938.44	27571.29	26998.30	26521.67	26498.26
G 65.0	24678.94	23849.43	23213.88	22966.27	23217.78	23748.51	24255.79	24491.42	24425.02	24080.72	23534.81	23072.38	23030.75
G 70.0	21739.84	20937.69	20326.70	20098.04	20360.91	20896.51	21404.08	21636.16	21558.51	21190.18	20605.80	20102.18	20031.72
G 75.0	18780.40	17953.30	17328.52	17108.38	17405.59	17974.45	18479.66	18652.60	18491.56	18061.49	17469.81	16993.62	16952.47
G 80.0	14665.54	13770.86	13098.48	12870.66	13208.17	13825.72	14336.50	14442.58	14201.69	13760.44	13262.52	12839.96	12621.84
G 85.0	7253.21	6296.39	5563.25	5277.47	5560.85	6127.64	6590.19	6657.14	6422.07	6074.86	5765.13	5481.57	5172.65
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire

Code 90-4880-14-M3V2
Name VOL

Measurment

Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm			Luminaire Power		10.3 W		Efficacy	82.243 lm/W		Efficiency	100.00%	
Source Flux	847 lm			Maximum value		620.06 cd/klm		Position	C=210.00 G=1.00		CG Asymmetrical		
Luminance cd/m2 Table 2/3													
	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90
G 5.0	102974.55	103218.61	103372.69	103329.49	103203.09	103162.89	103322.46	103571.97	103745.76	103726.39	103589.51	103459.00	103432.80
G 10.0	100131.24	100668.68	100997.38	100884.41	100578.58	100449.12	100747.06	101250.61	101619.76	101611.24	101368.62	101132.20	101091.89
G 15.0	95734.53	96564.26	97069.44	96898.57	96431.87	96232.46	96683.63	97449.31	98013.59	98006.27	97640.07	97273.40	97190.64
G 20.0	89723.75	90756.37	91377.34	91151.37	90570.24	90357.53	91001.24	92047.29	92806.04	92429.27	92052.50	91675.73	91446.18
G 25.0	81968.19	83197.18	83950.33	83721.89	83083.74	82877.18	83666.34	84906.69	85776.50	85266.55	84756.60	84246.64	83943.20
G 30.0	72670.30	74118.68	75004.99	74730.50	73969.90	73716.25	74634.63	76078.41	77073.00	76922.74	76047.65	75146.71	74785.58
G 35.0	62751.59	64237.06	65131.30	64824.19	64020.12	63752.11	64708.03	66195.19	67175.76	66914.05	65883.02	64857.76	64462.63
G 40.0	53171.26	54622.68	55480.92	55137.91	54297.63	53992.04	54908.22	56353.64	57290.88	56984.63	55908.00	54836.23	54393.98
G 45.0	44621.83	45916.40	46674.73	46348.92	45568.53	45257.52	46034.21	47294.45	48128.46	47415.11	46701.76	45988.41	45512.13
G 50.0	37447.96	38582.96	39238.13	38924.83	38206.70	37910.48	38588.69	39696.97	40416.74	40165.42	39304.34	38430.82	38029.00
G 55.0	31724.63	32702.48	33258.78	32965.26	32319.59	32050.94	32644.68	33611.15	34216.93	33943.86	33134.84	32348.03	32029.61
G 60.0	27128.32	27985.82	28488.14	28253.91	27706.70	27471.34	27965.20	28776.01	29284.09	29050.89	28362.54	27686.31	27398.11
G 65.0	23600.11	24382.34	24832.23	24593.45	24065.22	23835.63	24297.03	25058.71	25534.21	25308.45	24651.91	24006.42	23727.57
G 70.0	20595.04	21385.89	21846.28	21609.43	21073.45	20827.68	21266.93	22007.98	22473.07	22253.37	21615.58	20995.30	20742.07
G 75.0	17522.40	18305.62	18760.83	18533.95	18019.67	17799.89	18263.14	19024.54	19505.84	19298.66	18674.13	18073.23	17847.92
G 80.0	12687.56	12917.64	13142.91	13257.15	13406.06	13798.30	14538.52	15315.26	15713.08	15457.03	14834.27	14272.49	14108.04
G 85.0	4827.11	4594.88	4666.15	5171.77	6005.24	7000.71	7982.83	8738.31	9044.36	8777.47	8211.19	7718.34	7590.58
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire

Code 90-4880-14-M3V2
Name VOL

Measurem.

Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG Asymmetrical	

Luminance cd/m2 Table 3/3

	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90	104453.90
G 5.0	103505.04	103643.94	103809.97	103932.83	103934.48	103771.74	103540.81	103372.69	103365.82	103488.18
G 10.0	101236.13	101502.98	101814.77	102030.97	101995.35	101624.41	101125.58	100779.04	100794.25	101097.77
G 15.0	97380.03	97755.74	98205.73	98513.00	98434.31	97840.54	97058.87	96530.56	96584.77	97102.06
G 20.0	91591.92	92058.40	92732.04	93263.10	93242.81	92438.18	91319.42	90532.52	90561.50	91242.38
G 25.0	84109.02	84670.07	85483.44	86130.91	86125.42	85187.59	83868.89	82928.49	82935.85	83701.52
G 30.0	74996.80	75679.64	76656.00	77438.33	77461.75	76400.17	74882.87	73777.94	73737.66	74551.02
G 35.0	64719.04	65497.65	66589.77	67469.20	67530.36	66422.30	64812.40	63622.63	63546.74	64365.60
G 40.0	54603.65	55337.09	56390.00	57253.49	57342.56	56314.14	54792.96	53645.73	53525.77	54232.90
G 45.0	45585.79	46149.25	47060.30	47848.33	47960.63	47066.99	45727.05	44722.91	44644.24	45310.85
G 50.0	38130.26	38652.78	39451.87	40131.24	40231.68	39480.69	38352.46	37507.85	37445.11	38012.03
G 55.0	32177.89	32679.21	33378.14	33952.25	34037.38	33420.95	32496.87	31810.67	31773.41	32258.41
G 60.0	27508.38	27936.19	28558.79	29086.14	29186.34	28663.07	27862.11	27264.81	27234.22	27660.29
G 65.0	23825.73	24225.04	24810.11	25307.53	25404.40	24915.86	24169.16	23619.57	23610.25	24035.86
G 70.0	20861.20	21271.94	21855.83	22343.62	22428.34	21930.39	21179.51	20632.80	20634.44	21076.93
G 75.0	17994.02	18418.33	18994.13	19460.61	19523.45	19012.66	18255.61	17703.99	17697.72	18129.54
G 80.0	14311.92	14763.80	15316.89	15718.54	15689.64	15076.07	14223.52	13602.68	13566.75	13999.08
G 85.0	7794.98	8217.45	8717.67	9050.35	8943.96	8249.59	7308.81	6585.77	6429.40	6727.65
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire

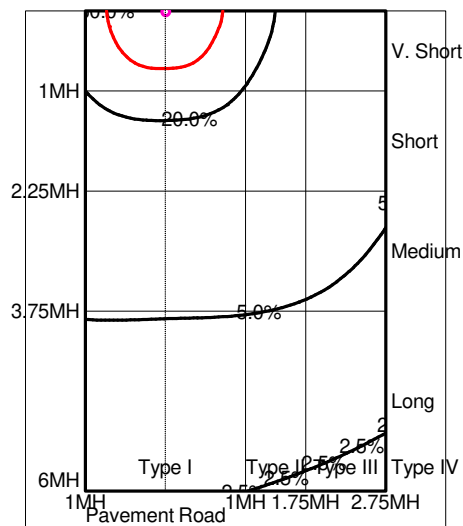
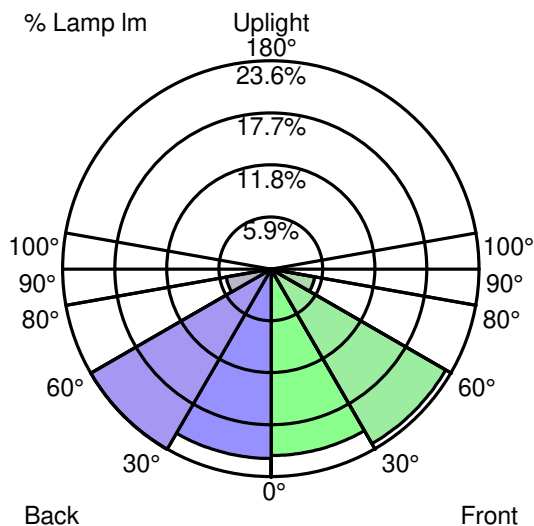
Code 90-4880-14-M3V2
Name VOL

Measurem.

Code 90-4880-14-M3V2
Name VOL

Luminaire Flux	847 lm	Luminaire Power	10.3 W	Efficacy	82.243 lm/W	Efficiency	100.00%
Source Flux	847 lm	Maximum value	620.06 cd/klm	Position	C=210.00 G=1.00	CG	Asymmetrical

US ROAD STANDARDS

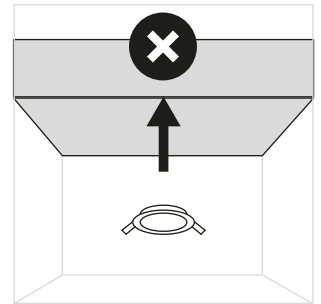
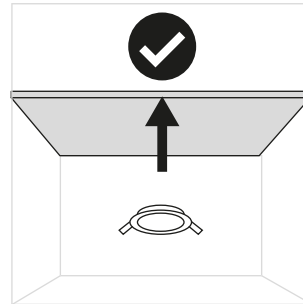
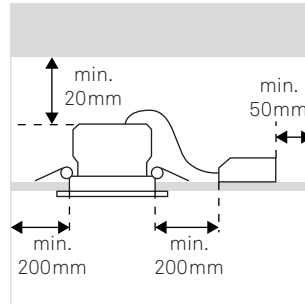


Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	179.2 lm	21.2 %	21.2 %
FM	30° -- 60°	193.6 lm	22.9 %	22.9 %
FH	60° -- 80°	42.5 lm	5.0 %	5.0 %
FVH	80° -- 90°	2.7 lm	0.3 %	0.3 %
BL	0° -- 30°	182.0 lm	21.5 %	21.5 %
BM	30° -- 60°	200.0 lm	23.6 %	23.6 %
BH	60° -- 80°	43.8 lm	5.2 %	5.2 %
BVH	80° -- 90°	3.3 lm	0.4 %	0.4 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		847.1 lm	100.0 %	100.0 %
BUG B1 U0 G0 Type V Very Short Quadrilateral Symmetry				



VOL

LedsC4



	 Ø135	 Ø205	 Ø254
 Ø	Ø117	Ø180	Ø230

