

Luminaire Photograph



Light Output Ratio:	83.8%	
Luminaire Power:	16.44 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-9-15

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1083B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

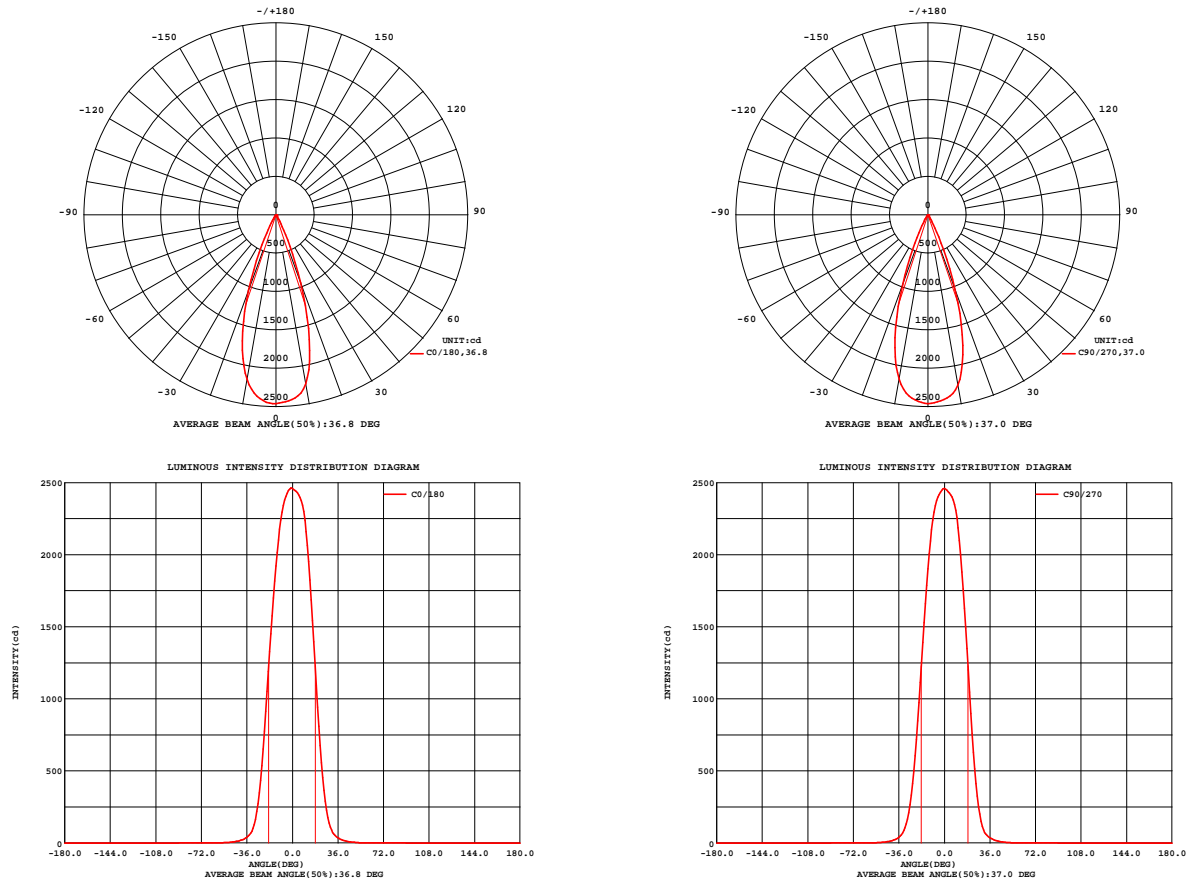


Fig. C0/C180

Fig. C90/C270

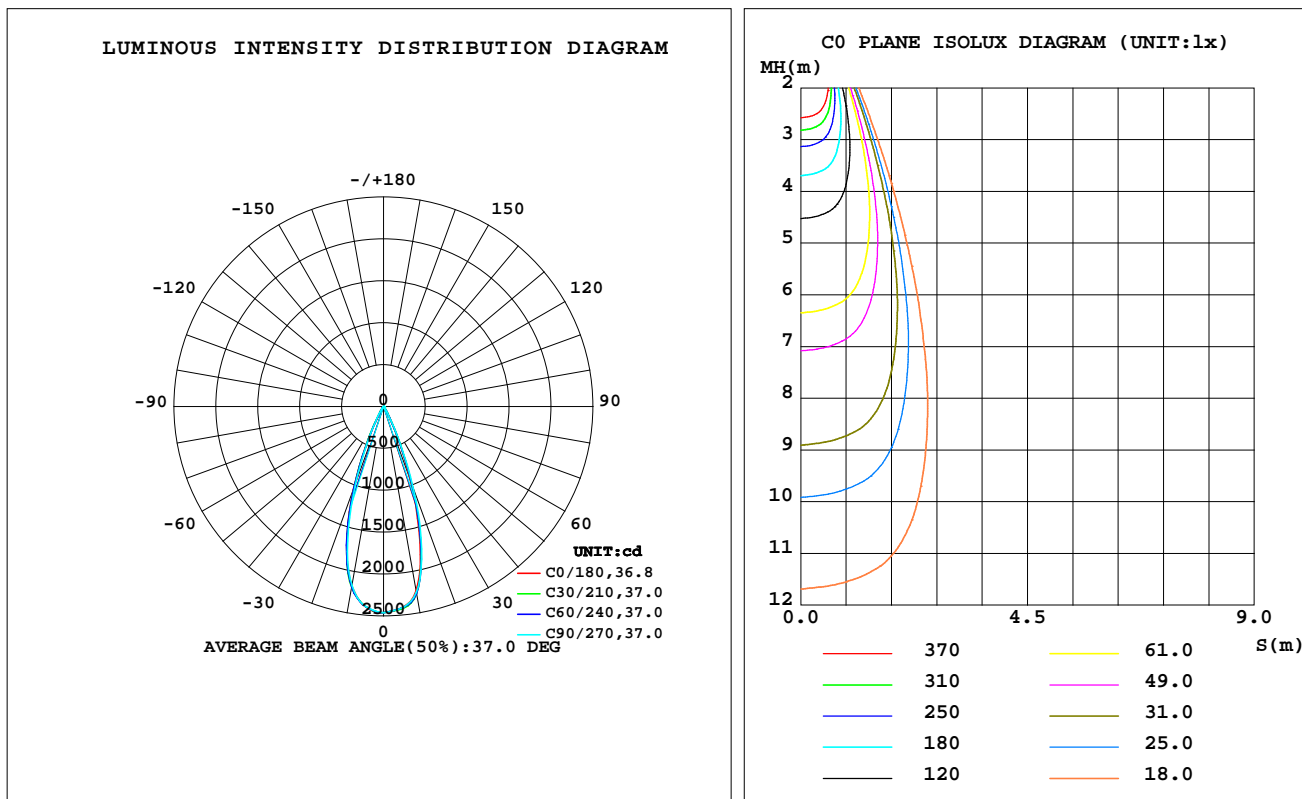
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.0756A P:16.436W PF:0.9854 Freq:49.99Hz Lamp Flux:1099.47x1 lm		
NAME: 2118.573-ACOT-36	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309151160
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.05 lm/W			
MODEL	CREE	I _{max} (cd)	2463	S/MH(C0/180)	0.57
NOMINAL POWER(W)	16	LOR(%)	83.8	S/MH(C90/270)	0.56
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	921.22	UP,DN(C0-180)	0.0,42.0
NOMINAL FLUX(lm)	1099.47	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,41.8
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	down(%)	83.8	CIBSE SHR MAX	0.55



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2238	2270	2255	2222	2176	2194	2174	2201	0- 10	224.3	224.3	24.4,20.4
20	943.4	988.3	1047	1029	1050	1039	974.5	956.0	10- 20	455.5	679.8	73.8,61.8
30	108.8	116.6	114.8	114.1	126.8	135.0	131.1	107.6	20- 30	199.9	879.7	95.5,80
40	19.19	20.23	19.53	19.93	20.77	20.90	20.14	18.58	30- 40	31.97	911.7	99,82.9
50	3.788	3.999	3.538	4.321	4.364	4.064	4.356	3.670	40- 50	7.464	919.2	99.8,83.6
60	0.5907	0.6015	0.5905	0.7058	0.8668	0.7665	0.6930	0.5634	50- 60	1.682	920.9	100,83.8
70	0.1200	0.1141	0.1228	0.1273	0.1370	0.1263	0.1272	0.1088	60- 70	0.2661	921.1	100,83.8
80	0.0417	0.0323	0.0431	0.0387	0.0508	0.0422	0.0457	0.0327	70- 80	0.0760	921.2	100,83.8
90	0	0	0	0	0	0	0	0	80- 90	0.0238	921.2	100,83.8
100	0	0	0	0	0	0	0	0	90-100	0	921.2	100,83.8
110	0	0	0	0	0	0	0	0	100-110	0	921.2	100,83.8
120	0	0	0	0	0	0	0	0	110-120	0	921.2	100,83.8
130	0	0	0	0	0	0	0	0	120-130	0	921.2	100,83.8
140	0	0	0	0	0	0	0	0	130-140	0	921.2	100,83.8
150	0	0	0	0	0	0	0	0	140-150	0	921.2	100,83.8
160	0	0	0	0	0	0	0	0	150-160	0	921.2	100,83.8
170	0	0	0	0	0	0	0	0	160-170	0	921.2	100,83.8
180	0	0	0	0	0	0	0	0	170-180	0	921.2	100,83.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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Lamp Flux:1099.47x1 lm

NAME: 2118.573-ACOT-36

TYPE:

WEIGHT:

SPEC.: 3000K

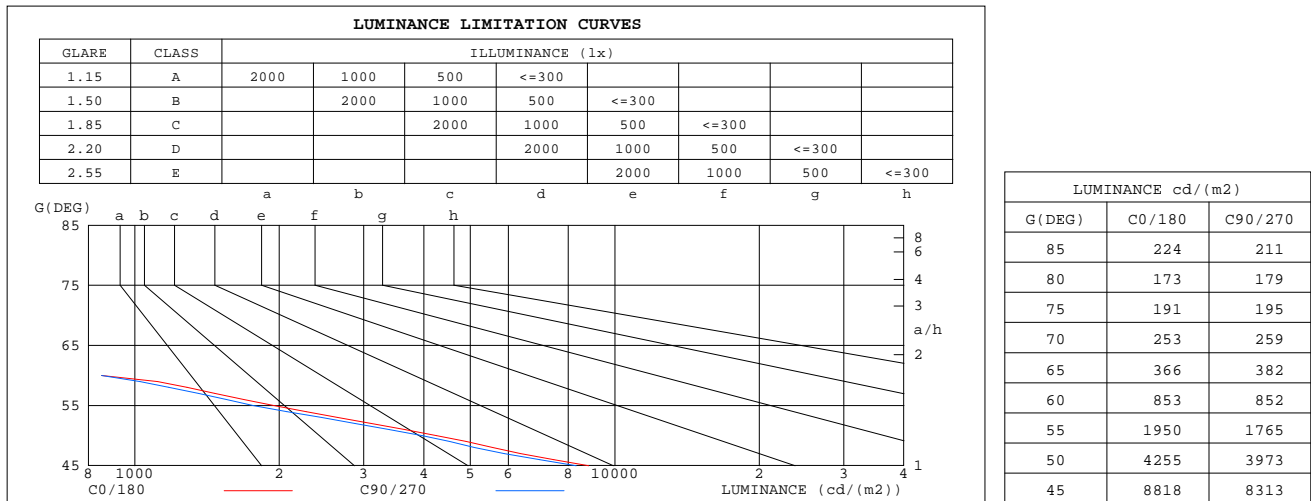
DIM.:

SERIAL No.: 2309151160

MFR.: RISE

SUR.: 0.00138474m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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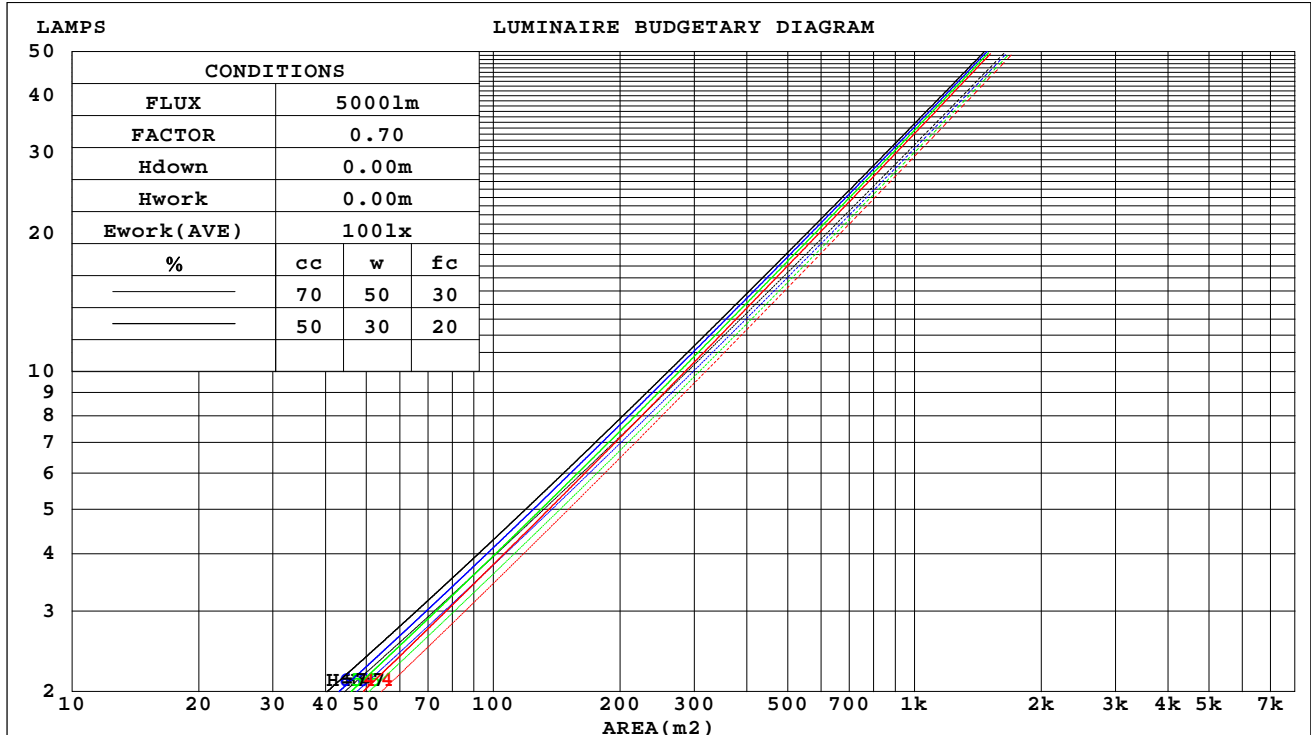
SERIAL No.: 2309151160

MFR.: RISE

SUR.: 0.00138474m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2309151160
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.121	.069	.022	.115	.066	.021	.105	.060	.019	.095	.055	.018	.086	.050	.016	
2.0	.113	.062	.019	.108	.059	.018	.099	.055	.017	.091	.051	.016	.084	.048	.015	
3.0	.105	.056	.017	.102	.054	.016	.094	.051	.016	.088	.048	.015	.082	.045	.014	
4.0	.099	.052	.015	.096	.050	.015	.090	.048	.014	.084	.045	.014	.079	.043	.013	
5.0	.094	.048	.014	.091	.047	.014	.086	.045	.013	.081	.043	.013	.077	.041	.012	
6.0	.089	.045	.013	.087	.044	.013	.083	.042	.012	.078	.041	.012	.074	.039	.012	
7.0	.085	.042	.012	.083	.041	.012	.079	.040	.012	.076	.039	.011	.072	.037	.011	
8.0	.082	.040	.011	.080	.039	.011	.076	.038	.011	.073	.037	.011	.070	.036	.010	
9.0	.078	.038	.011	.077	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	
10.0	.075	.036	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.066	.033	.010	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.160	.160	.160	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017	
1.0	.141	.132	.124	.121	.113	.106	.083	.078	.074	.048	.045	.043	.015	.015	.014	
2.0	.127	.111	.098	.109	.096	.085	.074	.066	.059	.043	.039	.035	.014	.012	.011	
3.0	.115	.095	.079	.098	.082	.069	.067	.057	.048	.039	.033	.028	.013	.011	.009	
4.0	.104	.082	.065	.090	.071	.057	.062	.049	.040	.036	.029	.024	.011	.009	.008	
5.0	.096	.072	.054	.082	.062	.047	.057	.044	.033	.033	.026	.020	.011	.008	.007	
6.0	.089	.064	.046	.076	.055	.040	.053	.039	.028	.031	.023	.017	.010	.007	.006	
7.0	.083	.057	.039	.071	.049	.034	.049	.035	.024	.029	.020	.014	.009	.007	.005	
8.0	.078	.051	.033	.067	.045	.029	.046	.031	.021	.027	.018	.012	.009	.006	.004	
9.0	.073	.047	.029	.063	.041	.025	.044	.029	.018	.025	.017	.011	.008	.006	.004	
10.0	.069	.043	.025	.060	.037	.022	.041	.026	.016	.024	.015	.009	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2309151160		
MFR.: RISE					SUR.: 0.00138474m2			Shielding Angle:		
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	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	9.8	10.6	10.1	10.7	10.9	9.7	10.4	9.9	10.6	10.7
3H	9.7	10.4	9.9	10.5	10.7	9.6	10.2	9.8	10.4	10.6
4H	9.6	10.2	9.9	10.4	10.7	9.5	10.1	9.7	10.3	10.5
6H	9.5	10.1	9.8	10.4	10.6	9.4	10.0	9.7	10.2	10.5
8H	9.5	10.1	9.8	10.3	10.6	9.4	9.9	9.7	10.2	10.4
12H	9.4	10.0	9.8	10.2	10.5	9.3	9.9	9.6	10.1	10.4
4H 2H	9.6	10.2	9.9	10.5	10.7	9.5	10.1	9.8	10.3	10.5
3H	9.5	10.0	9.8	10.3	10.5	9.3	9.9	9.6	10.1	10.4
4H	9.4	9.9	9.7	10.1	10.4	9.2	9.7	9.6	10.0	10.3
6H	9.3	9.7	9.6	10.0	10.4	9.1	9.6	9.5	9.9	10.2
8H	9.2	9.6	9.6	10.0	10.3	9.1	9.5	9.5	9.8	10.2
12H	9.1	9.5	9.6	9.9	10.3	9.0	9.4	9.4	9.8	10.2
8H 4H	9.2	9.6	9.6	10.0	10.3	9.1	9.5	9.5	9.8	10.2
6H	9.1	9.4	9.5	9.8	10.2	9.0	9.3	9.4	9.7	10.1
8H	9.0	9.3	9.5	9.7	10.2	8.9	9.2	9.3	9.6	10.1
12H	9.0	9.2	9.4	9.7	10.1	8.8	9.1	9.3	9.5	10.0
12H 4H	9.1	9.5	9.6	9.9	10.3	9.0	9.4	9.4	9.8	10.1
6H	9.0	9.3	9.5	9.7	10.2	8.9	9.2	9.3	9.6	10.1
8H	9.0	9.2	9.4	9.7	10.1	8.8	9.1	9.3	9.5	10.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.3 / -12.5					+ 3.5 / -12.9				
1.5H	+ 5.4 / - 8.9					+ 5.6 / - 9.0				
2.0H	+ 6.2 / -11.9					+ 6.1 / -11.3				

CIE Pub.117, 1099 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.3)
Area: 0.00138474 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

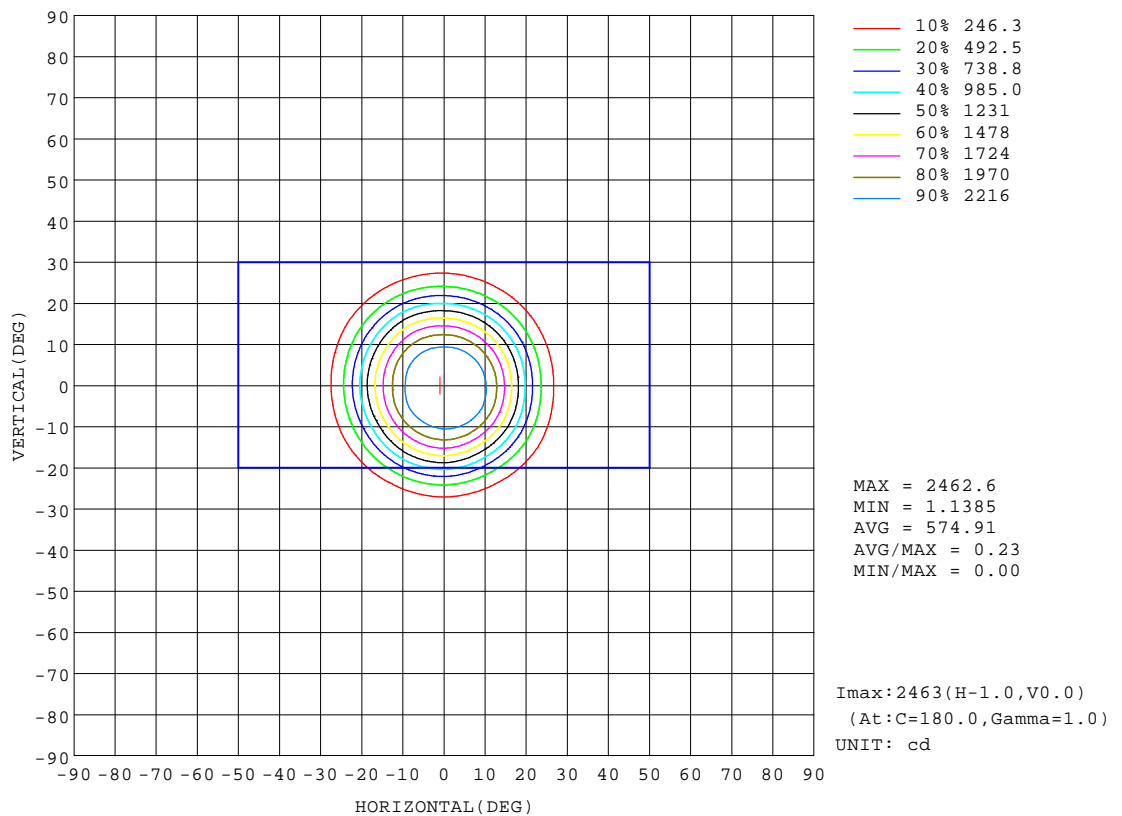
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	71	69	76	71	68	75	71	68	66
0.80	82	78	75	81	77	75	81	77	74	72
1.00	85	81	78	85	81	78	83	80	78	75
1.25	88	84	82	87	84	81	86	83	81	77
1.50	90	87	84	89	86	84	87	85	83	79
2.00	92	89	86	91	88	86	89	86	85	80
2.50	93	90	88	92	89	87	89	87	86	81
3.00	94	92	90	93	91	89	90	88	87	82
4.00	96	94	92	94	93	91	91	90	89	83
5.00	97	95	94	95	94	93	92	91	90	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

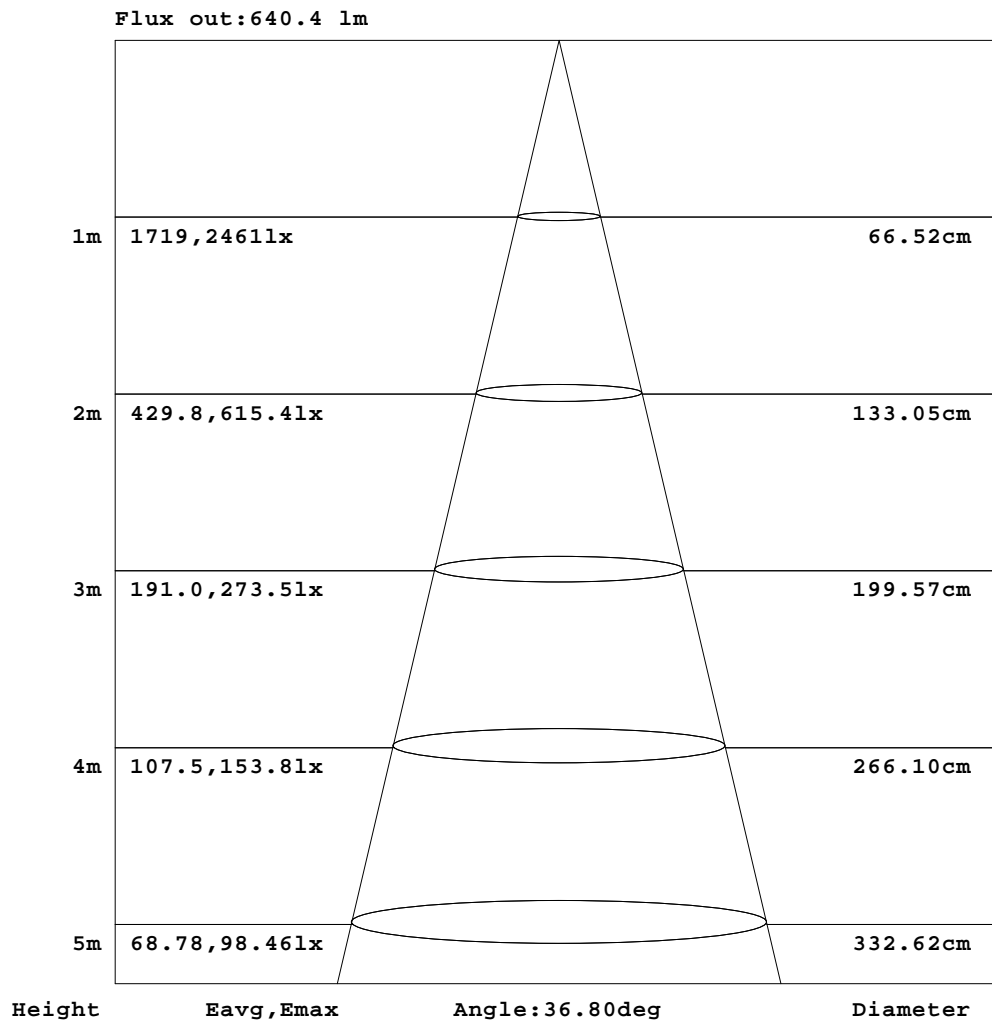


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AAI Figure

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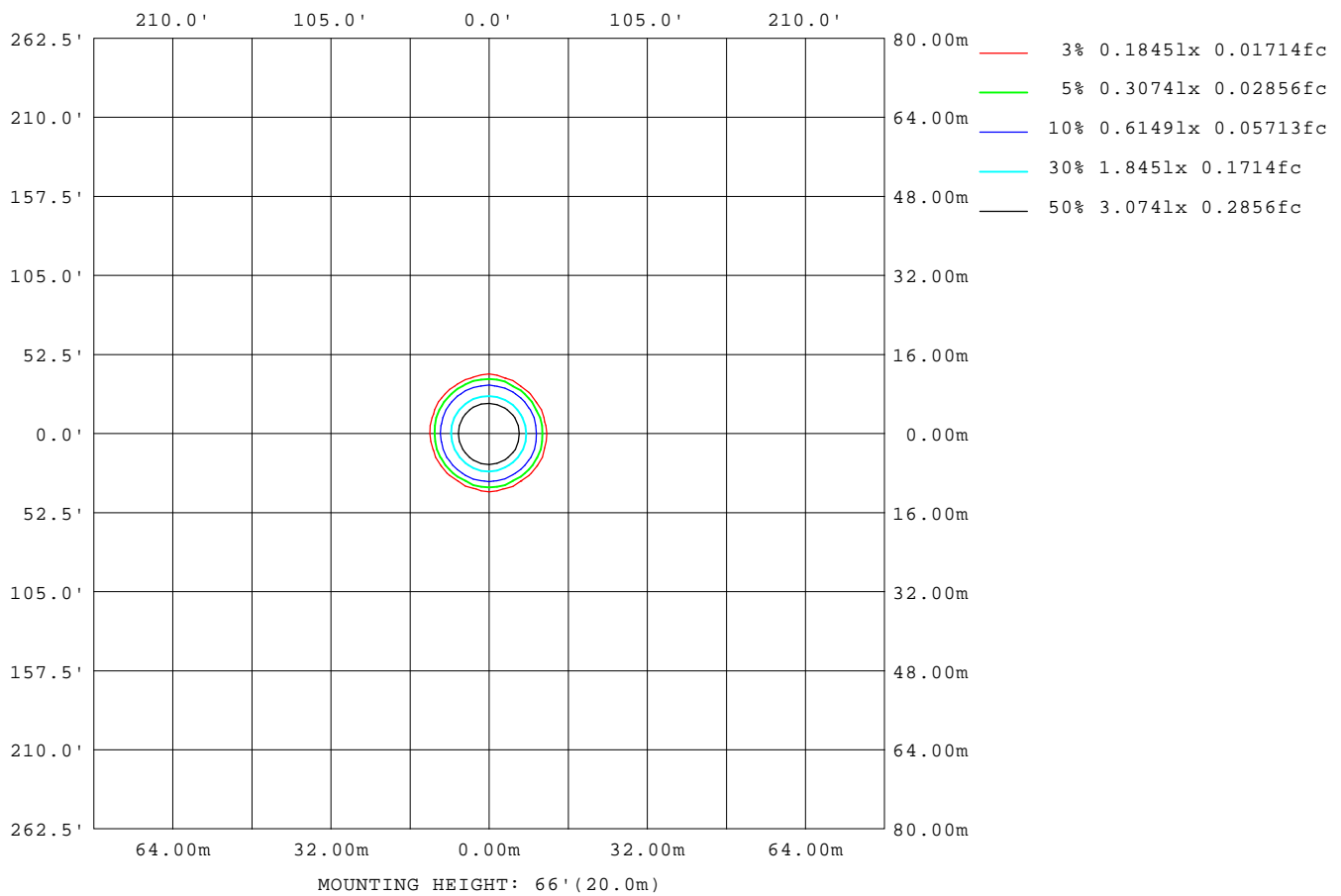
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LENS:PM-1083B 36R
DRIVER:9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.17V I:0.0756A P:16.436W PF:0.9854 Freq:49.99Hz Lamp Flux:1099.47x1 lm		
NAME: 2118.573-ACOT-36	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309151160
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

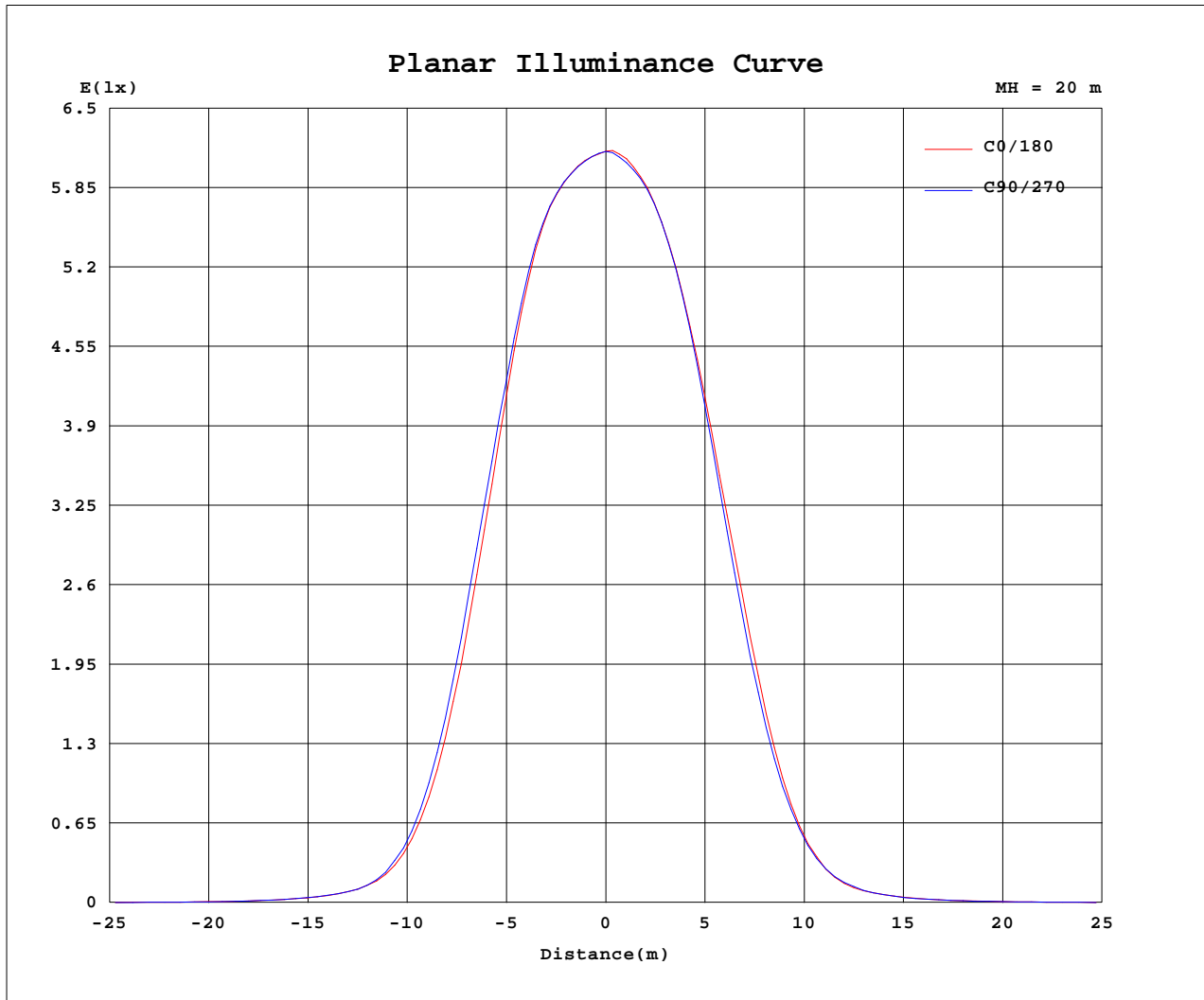
AvgL	cd/m2
L_0~180(65)av	386
L_0~180(75)av	206
L_0~180(85)av	240
L_90~270(65)av	389
L_90~270(75)av	198
L_90~270(85)av	228
L_45(65)av	376
L_45(75)av	180
L_45(85)av	143

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-9-15

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS:PM-1083B 36R
DRIVER:9290 028 088 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2023-9-15

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1083B 36R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.0756A P:16.436W PF:0.9854 Freq:49.99Hz Lamp Flux:1099.47x1 lm		
NAME: 2118.573-ACOT-36	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309151160
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2460	2460	2460	2460	2460	2460	2460	2460	2460	2460	2460	2460						
5	2414	2426	2417	2414	2411	2405	2404	2399	2401	2399	2397	2405						
10	2238	2271	2269	2255	2230	2215	2176	2196	2191	2174	2190	2213						
15	1686	1726	1727	1762	1741	1712	1700	1701	1711	1660	1657	1671						
20	943	991	985	1047	1045	1013	1050	1040	1039	974	960	953						
25	365	395	379	411	400	412	434	444	432	411	382	371						
30	109	121	112	115	105	123	127	142	128	131	111	104						
35	43.2	46.2	44.8	43.9	43.0	45.8	47.4	51.7	47.5	47.4	42.9	40.3						
40	19.2	20.9	19.5	19.5	19.4	20.5	20.8	21.0	20.8	20.1	19.4	17.7						
45	8.63	9.00	8.78	8.14	8.92	9.50	9.55	8.87	9.40	9.30	8.76	7.64						
50	3.79	4.04	3.96	3.54	4.10	4.54	4.36	3.75	4.38	4.36	4.01	3.33						
55	1.55	1.65	1.62	1.40	1.69	1.96	1.95	1.62	1.86	1.77	1.60	1.32						
60	0.59	0.61	0.60	0.59	0.72	0.69	0.87	0.73	0.80	0.69	0.60	0.53						
65	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.23	0.23	0.23	0.22	0.20						
70	0.12	0.11	0.12	0.12	0.13	0.13	0.14	0.13	0.12	0.13	0.11	0.11						
75	0.07	0.06	0.06	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.06	0.06						
80	0.04	0.03	0.03	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.03	0.03						
85	0.03	0.01	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
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