

Luminaire Photograph



Light Output Ratio:	83.3%	
Luminaire Power:	11.7 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: Zoe
Test Date: 2023-3-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER: PUP10A-1WMC-700 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

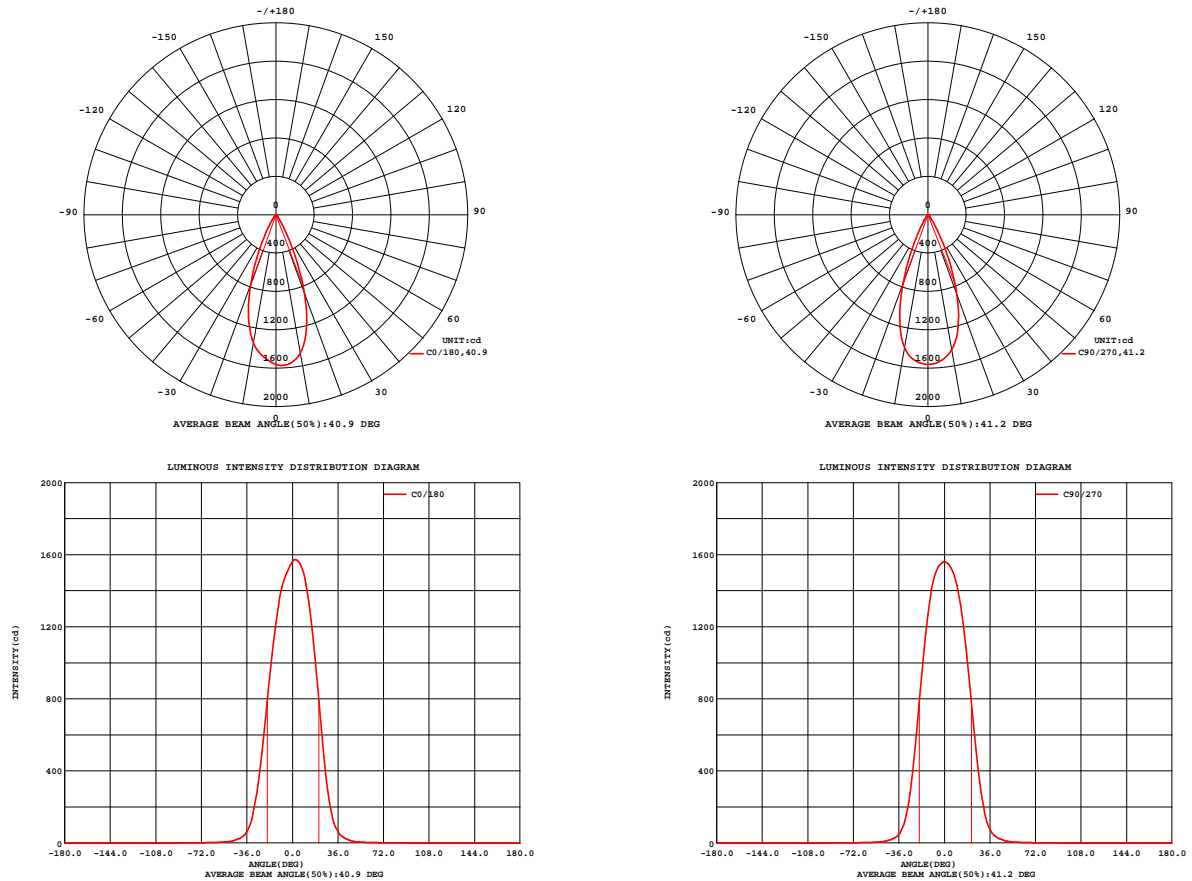


Fig. C0/C180

Fig. C90/C270

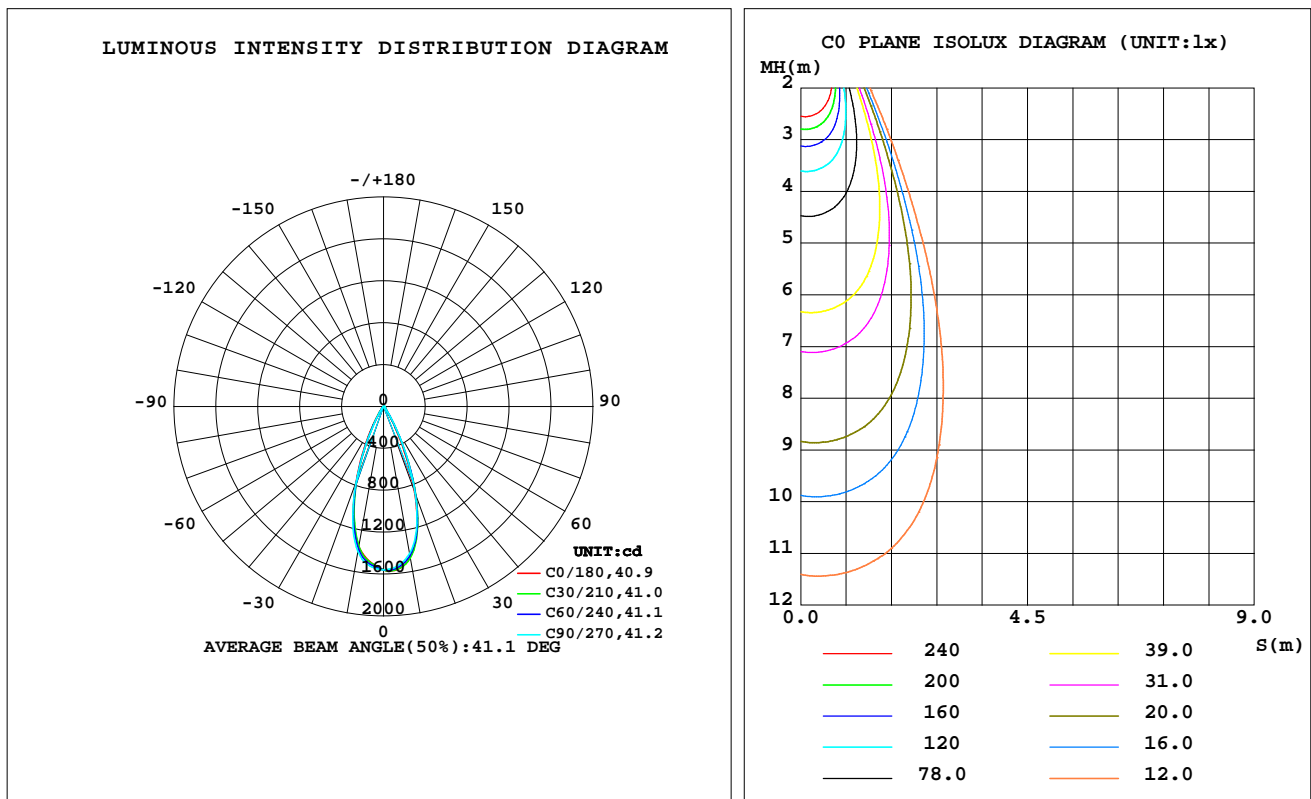
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.99V I:0.0985A P:11.701W PF:0.9880 Freq:59.98Hz Lamp Flux:896.707x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2303200341
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.84 lm/W			
MODEL	CREE	I _{max} (cd)	1572	S/MH(C0/180)	0.63
NOMINAL POWER(W)	12	LOR(%)	83.3	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	746.92	η UP,DN(C0-180)	0.0,43.6
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,39.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	83.3	CIBSE SHR MAX	0.65



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1465	1460	1428	1380	1359	1369	1408	1449	0- 10	142.3	142.3	19.1,15.9
20	872.4	900.8	886.0	816.8	774.5	748.9	765.8	828.4	10- 20	318.2	460.5	61.7,51.4
30	197.3	231.2	242.8	216.5	200.2	168.4	153.8	177.7	20- 30	211.1	671.6	89.9,74.9
40	33.45	37.55	39.37	36.36	32.84	28.10	25.68	29.25	30- 40	54.11	725.7	97.2,80.9
50	7.024	8.240	9.001	8.726	7.655	6.888	6.352	6.556	40- 50	13.15	738.9	98.9,82.4
60	2.835	3.155	3.416	3.311	3.164	2.955	2.781	2.782	50- 60	4.351	743.2	99.5,82.9
70	1.453	1.580	1.637	1.679	1.625	1.503	1.417	1.405	60- 70	2.191	745.4	99.8,83.1
80	0.8775	0.8175	0.7172	0.9374	0.9854	0.8194	0.5478	0.6896	70- 80	1.243	746.7	100,83.3
90	0	0	0	0	0	0	0	0	80- 90	0.2648	746.9	100,83.3
100	0	0	0	0	0	0	0	0	90-100	0	746.9	100,83.3
110	0	0	0	0	0	0	0	0	100-110	0	746.9	100,83.3
120	0	0	0	0	0	0	0	0	110-120	0	746.9	100,83.3
130	0	0	0	0	0	0	0	0	120-130	0	746.9	100,83.3
140	0	0	0	0	0	0	0	0	130-140	0	746.9	100,83.3
150	0	0	0	0	0	0	0	0	140-150	0	746.9	100,83.3
160	0	0	0	0	0	0	0	0	150-160	0	746.9	100,83.3
170	0	0	0	0	0	0	0	0	160-170	0	746.9	100,83.3
180	0	0	0	0	0	0	0	0	170-180	0	746.9	100,83.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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 LENS: PM-1084B 36R
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 30minutes warm-up

LUMINANCE LIMITATION CURVES

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Lamp Flux:896.707x1 lm

NAME: 2218.510-LEA-09

TYPE:

WEIGHT:

SPEC.: 3000K

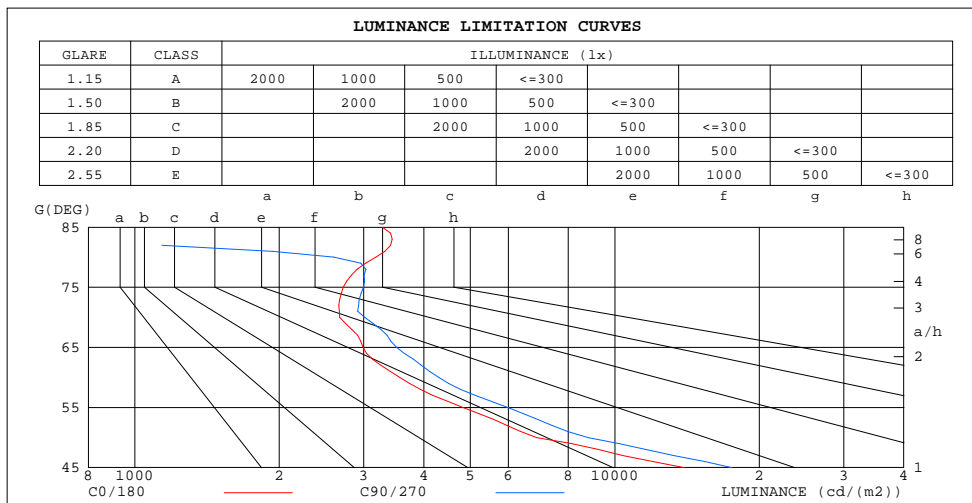
DIM.:

SERIAL No.: 2303200341

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



C Range: 0 - 360DEG
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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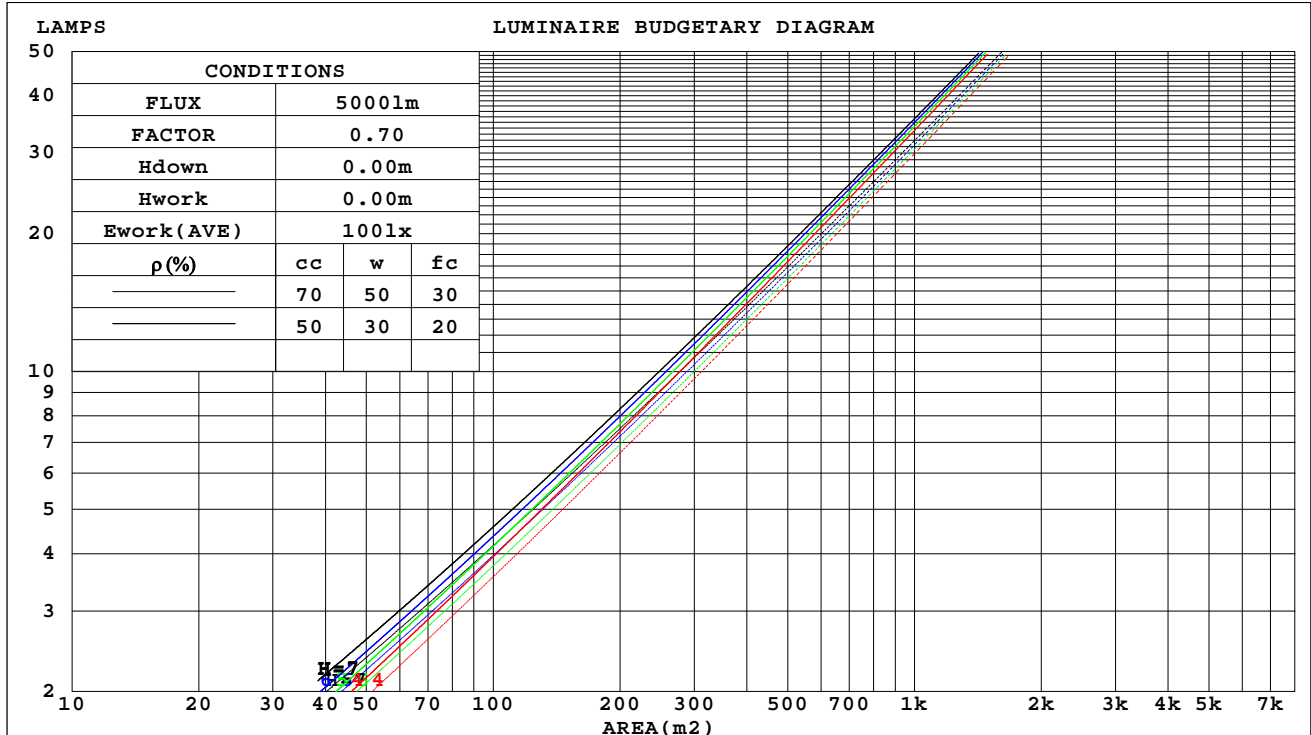
SERIAL No.: 2303200341

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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.: 2303200341
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.130	.074	.023	.124	.071	.023	.114	.065	.021	.104	.060	.019	.096	.055	.018	
2.0	.122	.067	.021	.118	.065	.020	.109	.061	.019	.101	.057	.018	.094	.053	.017	
3.0	.115	.061	.018	.111	.060	.018	.104	.056	.017	.097	.053	.016	.091	.050	.016	
4.0	.109	.057	.017	.106	.055	.016	.099	.053	.016	.094	.050	.015	.088	.048	.015	
5.0	.103	.053	.015	.100	.052	.015	.095	.049	.015	.090	.048	.014	.085	.046	.014	
6.0	.098	.049	.014	.096	.048	.014	.091	.047	.014	.087	.045	.013	.083	.044	.013	
7.0	.094	.046	.013	.092	.046	.013	.088	.044	.013	.084	.043	.012	.080	.042	.012	
8.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.081	.041	.012	.078	.040	.012	
9.0	.086	.042	.012	.084	.041	.012	.081	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.076	.038	.011	.073	.037	.011	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.159	.159	.159	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017	
1.0	.141	.131	.122	.121	.113	.105	.083	.077	.073	.048	.045	.042	.015	.014	.014	
2.0	.127	.110	.096	.109	.095	.083	.075	.066	.058	.043	.038	.034	.014	.012	.011	
3.0	.116	.094	.077	.099	.081	.067	.068	.057	.047	.039	.033	.028	.013	.011	.009	
4.0	.106	.082	.063	.091	.071	.055	.063	.049	.039	.036	.029	.023	.012	.009	.008	
5.0	.098	.072	.052	.084	.062	.046	.058	.043	.032	.034	.026	.019	.011	.008	.006	
6.0	.092	.064	.044	.079	.055	.038	.054	.039	.027	.031	.023	.016	.010	.007	.005	
7.0	.086	.057	.037	.074	.050	.033	.051	.035	.023	.030	.021	.014	.010	.007	.005	
8.0	.081	.052	.032	.069	.045	.028	.048	.032	.020	.028	.019	.012	.009	.006	.004	
9.0	.076	.047	.028	.066	.041	.024	.046	.029	.017	.027	.017	.010	.009	.006	.003	
10.0	.072	.044	.024	.062	.038	.021	.043	.027	.015	.025	.016	.009	.008	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:119.99V I:0.0985A P:11.701W PF:0.9880 Freq:59.98Hz Lamp Flux:896.707x1 lm										
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SPEC.: 3000K					DIM.:			SERIAL No.: 2303200341		
MFR.: RISE					SUR.: 0.001589625m2			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	15.3	16.1	15.5	16.3	16.4	16.2	16.9	16.4	17.1	17.3
3H	15.3	16.0	15.5	16.2	16.4	16.1	16.8	16.3	17.0	17.2
4H	15.2	15.9	15.5	16.1	16.3	16.1	16.7	16.3	17.0	17.2
6H	15.2	15.9	15.5	16.1	16.3	16.0	16.7	16.3	16.9	17.1
8H	15.2	15.8	15.5	16.1	16.3	16.0	16.6	16.3	16.9	17.1
12H	15.2	15.8	15.5	16.0	16.3	15.9	16.5	16.2	16.8	17.1
4H 2H	15.2	15.8	15.4	16.1	16.3	16.0	16.7	16.2	16.9	17.1
3H	15.1	15.7	15.4	16.0	16.2	15.9	16.5	16.2	16.8	17.0
4H	15.1	15.6	15.4	15.9	16.2	15.9	16.4	16.2	16.7	17.0
6H	15.1	15.6	15.5	15.9	16.3	15.9	16.4	16.3	16.7	17.0
8H	15.1	15.6	15.5	15.9	16.3	15.8	16.3	16.2	16.6	17.0
12H	15.1	15.5	15.5	15.9	16.3	15.8	16.2	16.2	16.6	17.0
8H 4H	15.0	15.4	15.4	15.8	16.2	15.8	16.2	16.2	16.6	17.0
6H	15.1	15.4	15.5	15.8	16.2	15.8	16.2	16.2	16.6	17.0
8H	15.1	15.4	15.5	15.8	16.3	15.7	16.1	16.2	16.5	16.9
12H	15.1	15.4	15.6	15.8	16.3	15.7	16.0	16.2	16.4	16.9
12H 4H	15.0	15.4	15.4	15.7	16.1	15.7	16.2	16.2	16.5	16.9
6H	15.0	15.3	15.5	15.8	16.2	15.8	16.1	16.2	16.5	16.9
8H	15.1	15.3	15.5	15.8	16.2	15.7	16.0	16.2	16.4	16.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.4 / - 4.1					+ 3.0 / - 4.6				
1.5H	+ 4.3 / - 3.6					+ 4.9 / - 4.2				
2.0H	+ 3.4 / - 1.7					+ 4.4 / - 2.3				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

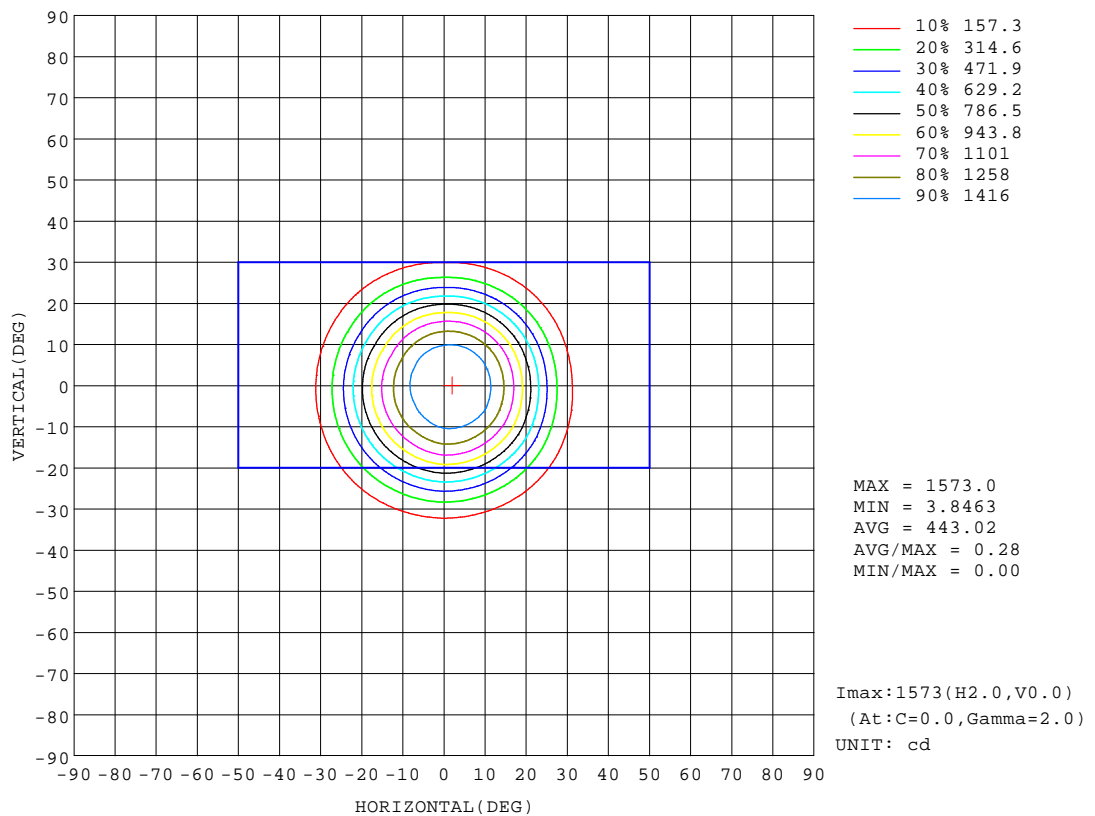
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	75	70	67	74	70	67	74	69	67	64
0.80	81	76	73	80	76	73	79	75	73	70
1.00	84	80	77	83	79	77	82	79	76	73
1.25	87	83	80	86	83	80	85	82	79	76
1.50	89	86	83	88	85	83	86	84	82	78
2.00	91	88	85	90	87	85	88	85	83	79
2.50	92	89	87	91	88	86	89	86	85	80
3.00	94	91	89	92	90	88	89	88	86	81
4.00	95	93	91	93	92	90	91	89	88	82
5.00	96	94	93	94	93	92	91	90	89	83
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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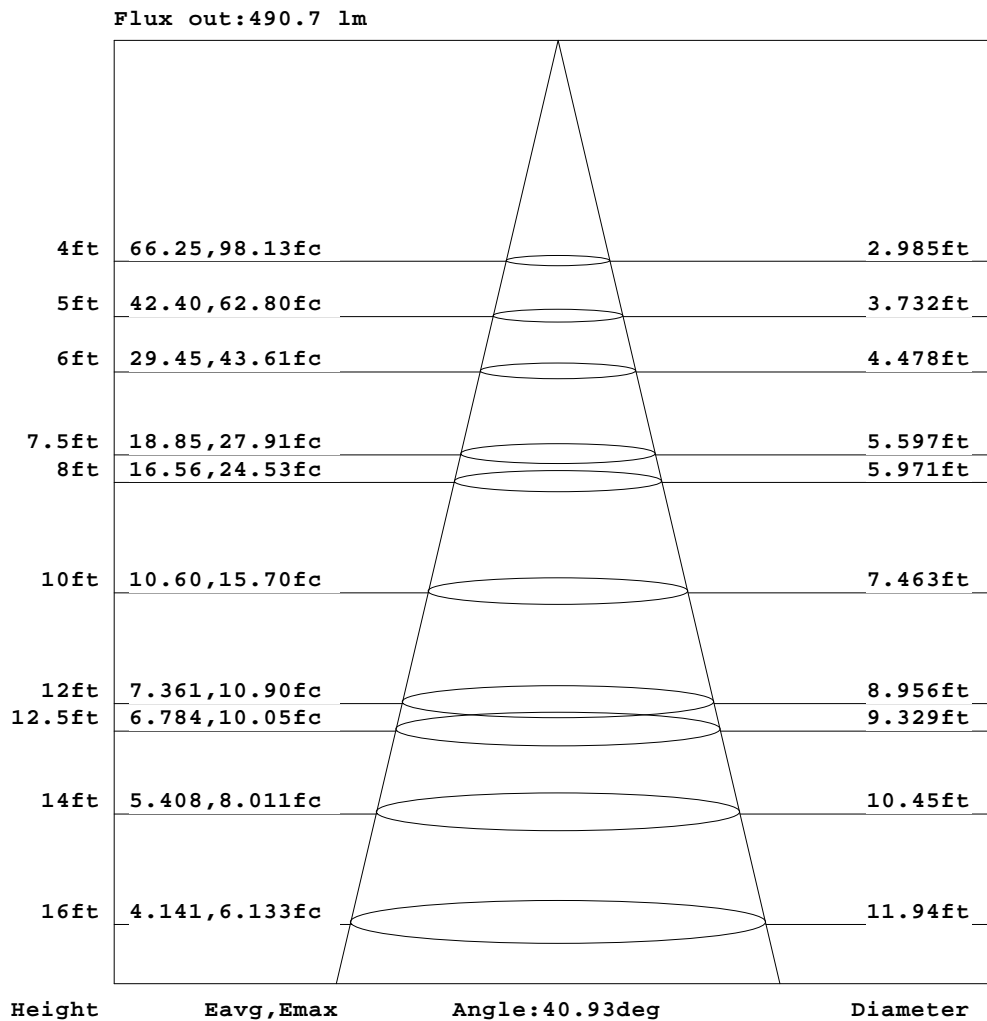


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AAI Figure

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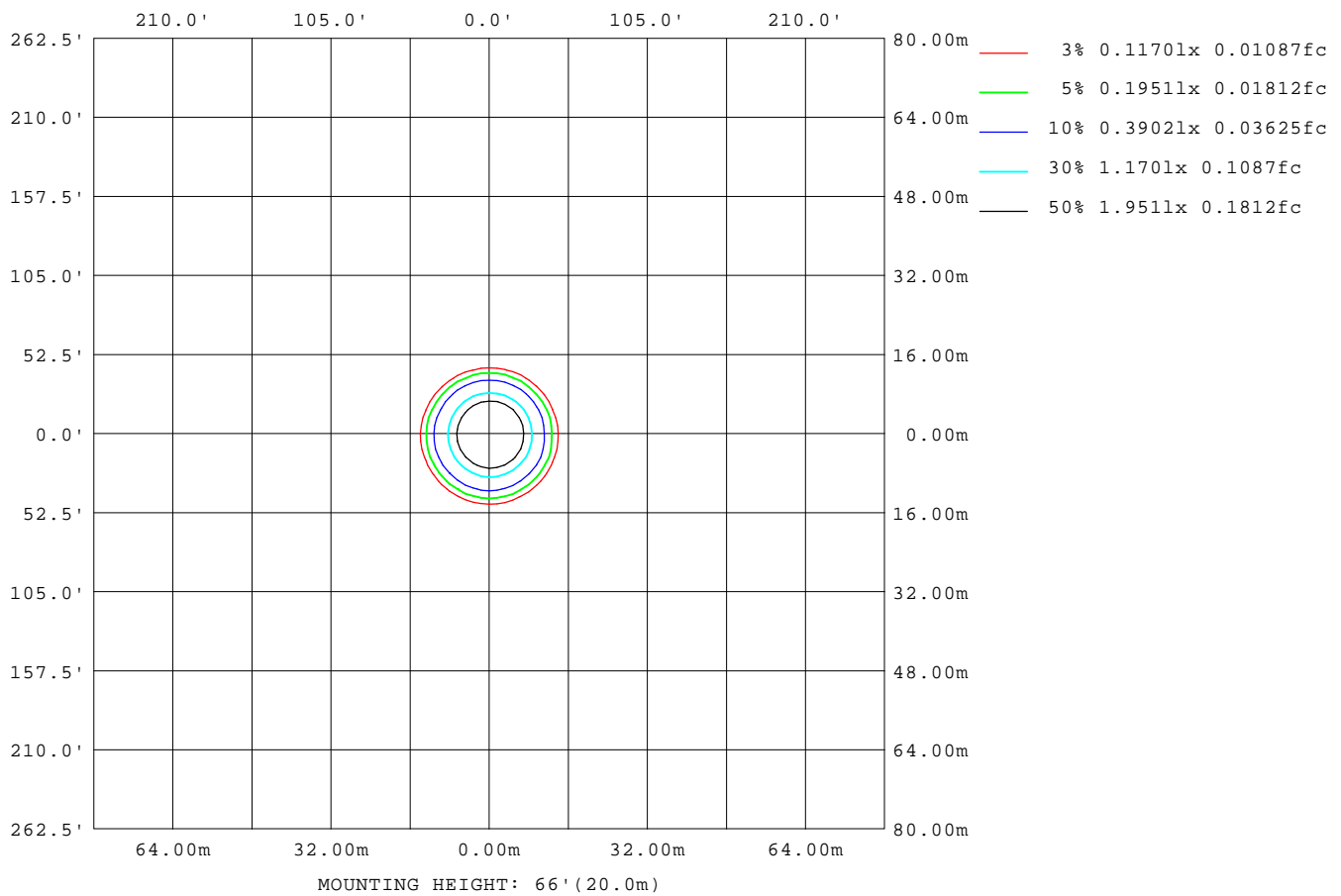
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

LED Avg.L Report

Test:U:119.99V I:0.0985A P:11.701W PF:0.9880 Freq:59.98Hz Lamp Flux:896.707x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2303200341
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

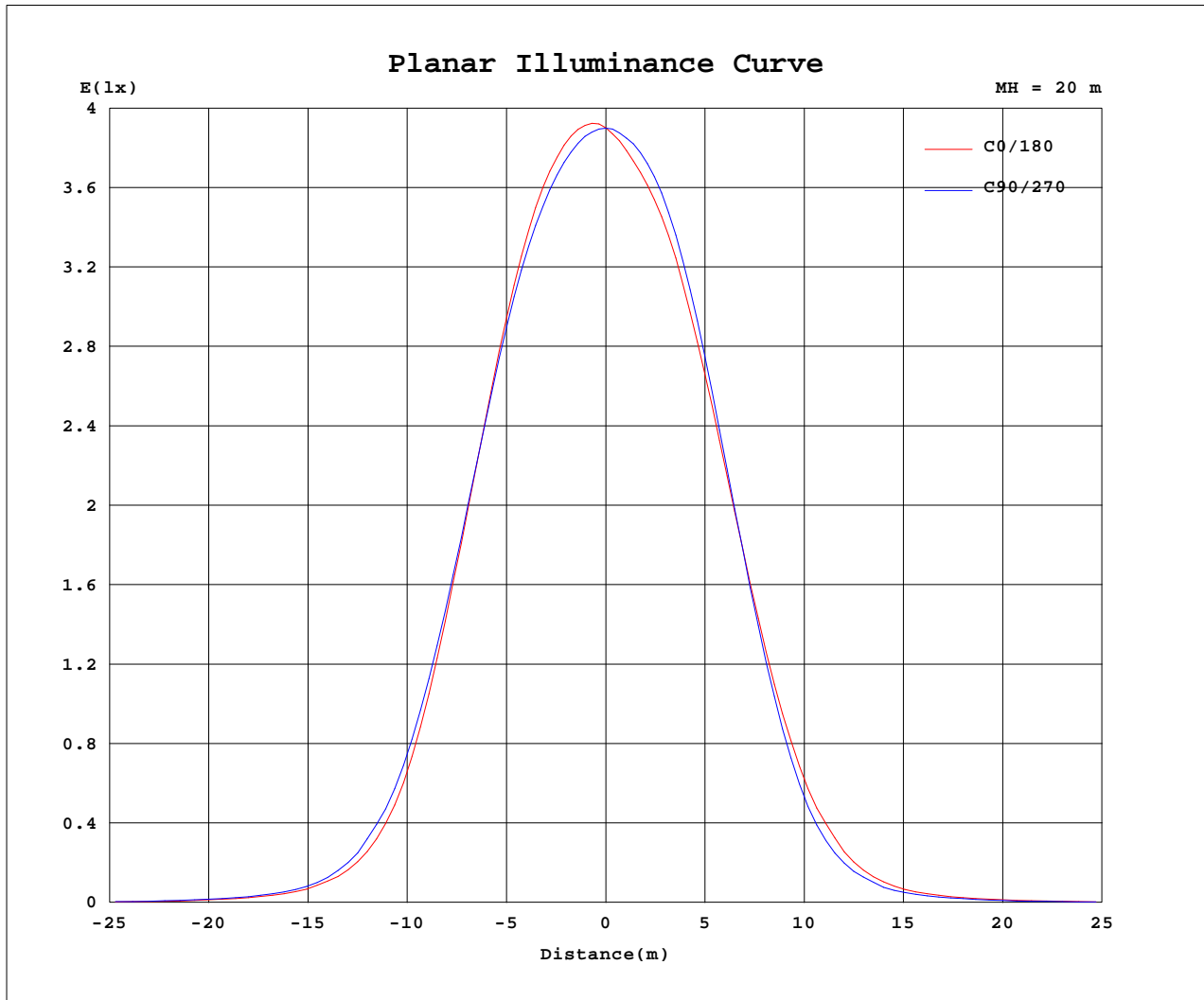
AvgL	cd/m2
L_0~180(65)av	3180
L_0~180(75)av	2872
L_0~180(85)av	3740
L_90~270(65)av	3273
L_90~270(75)av	2810
L_90~270(85)av	196
L_45(65)av	3230
L_45(75)av	2870
L_45(85)av	204

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Zoe
Test Date:2023-3-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
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: 2023-3-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90
 LENS: PM-1084B 36R
 DRIVER: PUP10A-1WMC-700 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.99V I:0.0985A P:11.701W PF:0.9880 Freq:59.98Hz Lamp Flux:896.707x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2303200341
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560						
5	1561	1558	1544	1529	1507	1489	1487	1494	1510	1528	1550	1563						
10	1465	1472	1448	1428	1392	1369	1359	1356	1381	1408	1439	1459						
15	1233	1247	1235	1218	1165	1133	1109	1086	1112	1141	1183	1220						
20	872	906	895	886	835	799	775	744	754	766	808	849						
25	476	517	518	521	486	459	437	403	398	391	421	453						
30	197	231	231	243	221	212	200	174	163	154	170	186						
35	79.3	87.7	89.6	93.2	88.2	81.0	75.8	69.5	59.9	56.5	63.3	73.3						
40	33.4	37.0	38.1	39.4	37.4	35.3	32.8	29.2	27.0	25.7	27.7	30.8						
45	15.7	18.0	18.6	19.7	18.5	17.7	16.1	14.3	13.2	12.4	13.2	14.6						
50	7.02	7.74	8.74	9.00	9.23	8.22	7.65	7.09	6.68	6.35	6.37	6.74						
55	4.40	4.81	5.16	5.46	5.40	5.12	4.93	4.59	4.31	4.06	4.10	4.28						
60	2.83	3.04	3.27	3.42	3.37	3.25	3.16	3.01	2.90	2.78	2.77	2.80						
65	2.01	2.15	2.29	2.36	2.36	2.31	2.26	2.18	2.12	2.04	1.97	1.97						
70	1.45	1.54	1.62	1.64	1.70	1.66	1.63	1.54	1.47	1.42	1.39	1.42						
75	1.12	1.18	1.24	1.23	1.29	1.27	1.25	1.18	1.12	1.08	1.06	1.08						
80	0.88	0.91	0.73	0.72	0.87	1.00	0.99	0.92	0.72	0.55	0.58	0.80						
85	0.45	0.06	0.01	0.03	0.01	0.19	0.58	0.11	0.01	0.03	0.01	0.01						
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
C Interval: 30.0DEG
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Temperature:25.3℃
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