

Luminaire Photograph



Light Output Ratio:	81.7%	
Luminaire Power:	11.1 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: 2023-8-4

γ Range: 0 - 180DEG
γ 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-1084B 36R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

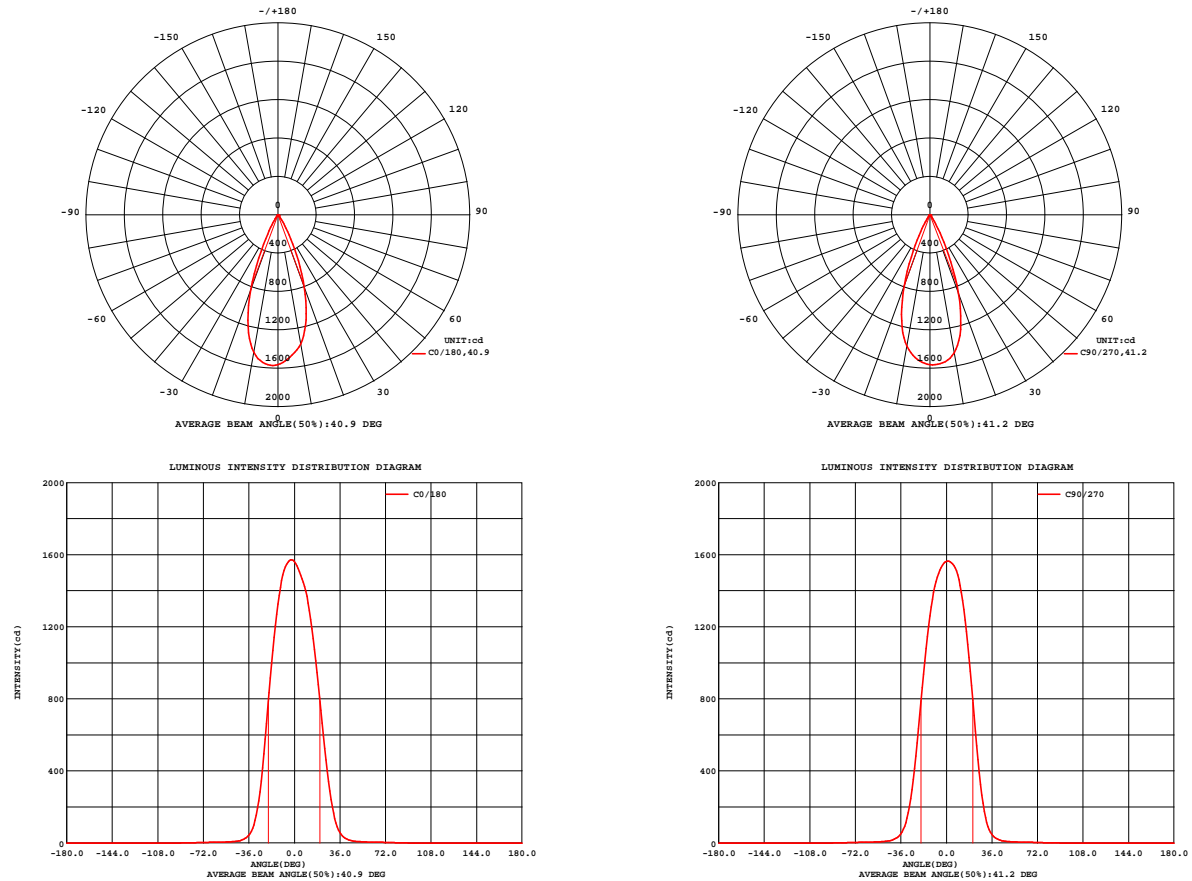


Fig. C0/C180

Fig. C90/C270

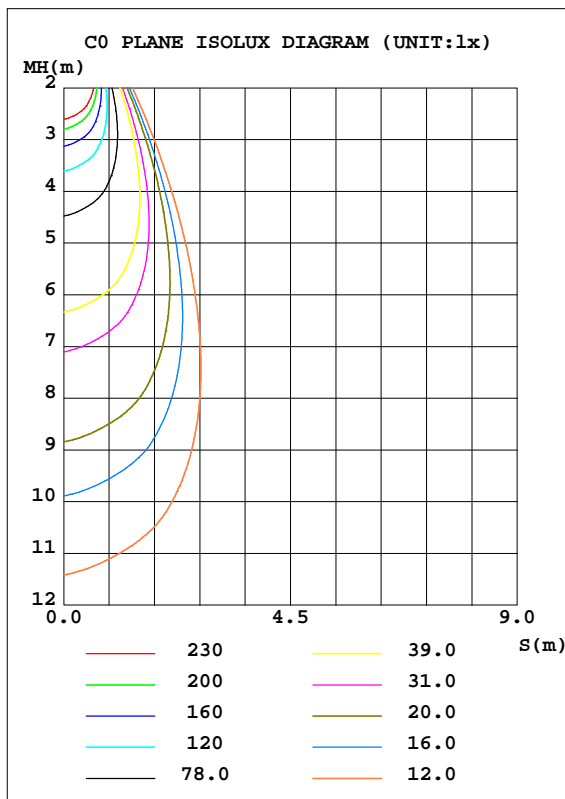
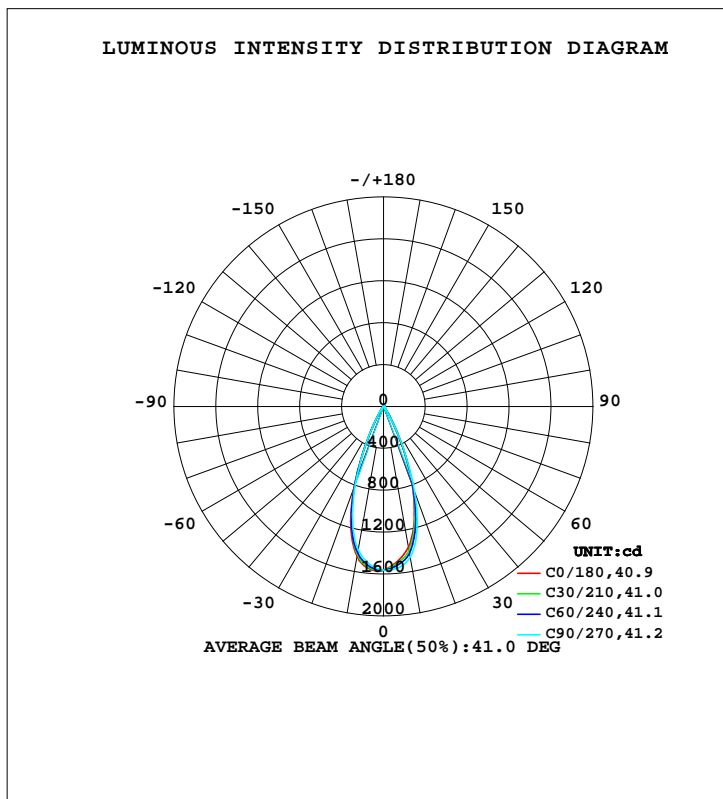
C Range: 0 - 360DEG
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Test Speed: HIGH
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040978
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.03 lm/W			
MODEL	CREE	I _{max} (cd)	1576	S/MH(C0/180)	0.63
NOMINAL POWER(W)	11	LOR(%)	81.7	S/MH(C90/270)	0.62
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	732.81	η UP,DN(C0-180)	0.0,41.6
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,40.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	81.7	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	1368	1411	1461	1474	1456	1431	1391	1362	0- 10	142.5	142.5	19.4,15.9
20	808.2	829.2	873.7	862.2	833.5	817.9	787.2	783.6	10- 20	319.3	461.7	63,51.5
30	200.9	191.5	175.7	165.5	153.4	163.3	167.9	183.7	20- 30	203.7	665.4	90.8,74.2
40	27.98	25.51	23.51	22.52	21.24	23.18	24.99	26.57	30- 40	45.09	710.5	97,79.2
50	8.257	7.951	7.533	7.056	6.869	7.434	7.913	8.083	40- 50	9.945	720.4	98.3,80.3
60	4.946	4.873	4.716	4.517	4.449	4.738	4.927	4.930	50- 60	5.235	725.7	99,80.9
70	3.559	3.462	3.304	3.119	3.042	3.226	3.386	3.483	60- 70	4.070	729.7	99.6,81.4
80	1.633	1.614	1.360	1.386	1.242	1.363	1.376	1.559	70- 80	2.520	732.3	99.9,81.7
90	0	0	0	0	0	0	0	0	80- 90	0.5480	732.8	100,81.7
100	0	0	0	0	0	0	0	0	90-100	0	732.8	100,81.7
110	0	0	0	0	0	0	0	0	100-110	0	732.8	100,81.7
120	0	0	0	0	0	0	0	0	110-120	0	732.8	100,81.7
130	0	0	0	0	0	0	0	0	120-130	0	732.8	100,81.7
140	0	0	0	0	0	0	0	0	130-140	0	732.8	100,81.7
150	0	0	0	0	0	0	0	0	140-150	0	732.8	100,81.7
160	0	0	0	0	0	0	0	0	150-160	0	732.8	100,81.7
170	0	0	0	0	0	0	0	0	160-170	0	732.8	100,81.7
180	0	0	0	0	0	0	0	0	170-180	0	732.8	100,81.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz
Lamp Flux:896.707x1 lm

NAME: 2214.412-1-ACOT-97

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.: 2308040978

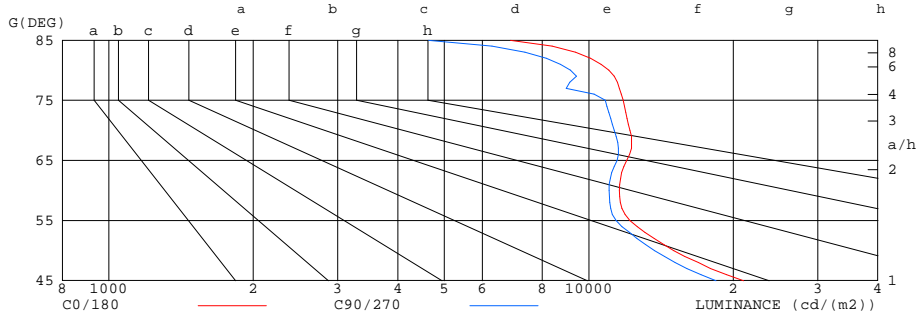
MFR.: RISE

SUR.: 0.000854865m2

Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	6870	4637
80	11014	9159
75	11789	10816
70	12185	11295
65	11986	11456
60	11583	11030
55	12177	11404
50	15041	13704
45	21020	18413

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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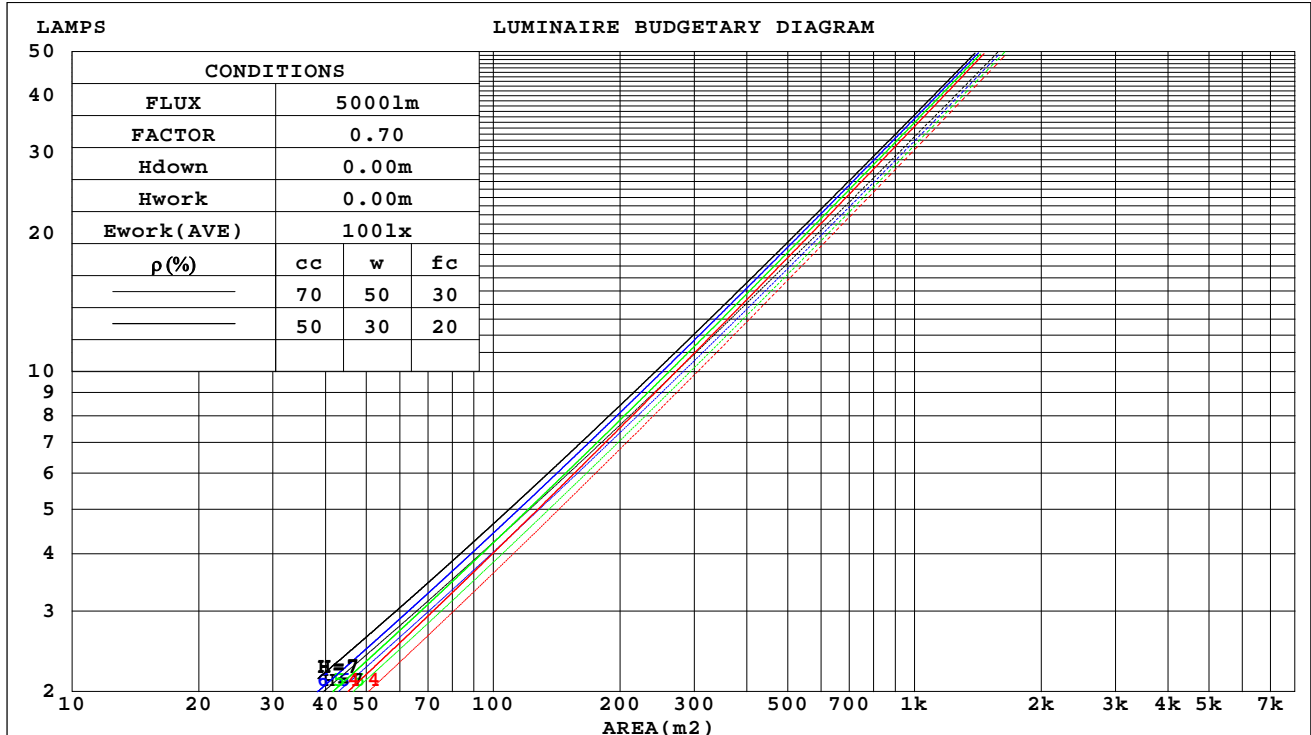
SERIAL No.: 2308040978

MFR.: RISE

SUR.: 0.000854865m2

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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NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040978
MFR.: RISE	SUR.: 0.000854865m2	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	.128	.073	.023	.123	.070	.022	.112	.065	.021	.103	.059	.019	.094	.055	.018	
2.0	.120	.066	.020	.116	.064	.020	.107	.060	.018	.099	.056	.017	.092	.052	.016	
3.0	.113	.060	.018	.109	.058	.018	.102	.055	.017	.095	.052	.016	.089	.049	.015	
4.0	.107	.055	.016	.103	.054	.016	.097	.052	.015	.092	.049	.015	.086	.047	.014	
5.0	.101	.051	.015	.098	.050	.015	.093	.048	.014	.088	.046	.014	.083	.045	.013	
6.0	.096	.048	.014	.094	.047	.014	.089	.046	.013	.085	.044	.013	.081	.042	.013	
7.0	.091	.045	.013	.089	.045	.013	.085	.043	.012	.082	.042	.012	.078	.041	.012	
8.0	.087	.043	.012	.086	.042	.012	.082	.041	.012	.079	.040	.012	.076	.039	.011	
9.0	.084	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	
10.0	.081	.039	.011	.079	.038	.011	.076	.037	.011	.074	.037	.010	.071	.036	.010	

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	.156	.156	.156	.133	.133	.133	.091	.091	.091	.052	.052	.052	.017	.017	.017		
1.0	.139	.129	.120	.119	.110	.103	.081	.076	.071	.047	.044	.041	.015	.014	.013		
2.0	.125	.108	.094	.107	.093	.082	.073	.065	.057	.042	.038	.033	.014	.012	.011		
3.0	.114	.093	.076	.097	.080	.066	.067	.056	.046	.039	.032	.027	.012	.011	.009		
4.0	.104	.080	.062	.089	.069	.054	.062	.048	.038	.036	.028	.022	.011	.009	.007		
5.0	.096	.071	.052	.083	.061	.045	.057	.043	.032	.033	.025	.019	.011	.008	.006		
6.0	.090	.063	.043	.077	.054	.038	.053	.038	.027	.031	.022	.016	.010	.007	.005		
7.0	.084	.056	.037	.072	.049	.032	.050	.034	.023	.029	.020	.014	.009	.007	.004		
8.0	.079	.051	.032	.068	.044	.028	.047	.031	.020	.027	.018	.012	.009	.006	.004		
9.0	.075	.046	.027	.064	.040	.024	.044	.028	.017	.026	.017	.010	.008	.005	.003		
10.0	.071	.043	.024	.061	.037	.021	.042	.026	.015	.025	.015	.009	.008	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308040978		
MFR.: RISE					SUR.: 0.000854865m2			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	17.0	17.8	17.2	17.9	18.1	16.1	16.9	16.3	17.0	17.2
3H	17.3	18.1	17.6	18.3	18.5	16.5	17.2	16.8	17.4	17.6
4H	17.5	18.2	17.8	18.4	18.7	16.7	17.4	17.0	17.6	17.9
6H	17.7	18.4	18.0	18.6	18.8	16.9	17.5	17.2	17.8	18.0
8H	17.8	18.4	18.1	18.6	18.9	16.9	17.6	17.2	17.8	18.1
12H	17.8	18.4	18.1	18.6	18.9	16.9	17.5	17.2	17.8	18.1
4H 2H	17.0	17.7	17.2	17.9	18.1	16.1	16.8	16.4	17.0	17.3
3H	17.5	18.1	17.8	18.3	18.6	16.7	17.3	17.1	17.6	17.9
4H	17.8	18.3	18.1	18.6	18.9	17.1	17.6	17.4	17.9	18.2
6H	18.1	18.6	18.5	18.9	19.2	17.3	17.8	17.7	18.2	18.5
8H	18.2	18.6	18.6	19.0	19.3	17.4	17.9	17.8	18.2	18.6
12H	18.2	18.6	18.6	19.0	19.4	17.4	17.8	17.8	18.2	18.6
8H 4H	17.9	18.3	18.2	18.7	19.0	17.2	17.6	17.6	18.0	18.4
6H	18.3	18.6	18.7	19.0	19.4	17.6	17.9	18.0	18.3	18.7
8H	18.4	18.7	18.8	19.1	19.6	17.7	18.0	18.1	18.4	18.9
12H	18.5	18.8	18.9	19.2	19.7	17.7	18.0	18.2	18.5	18.9
12H 4H	17.8	18.2	18.2	18.6	19.0	17.2	17.6	17.6	18.0	18.4
6H	18.3	18.6	18.7	19.0	19.4	17.6	17.9	18.0	18.3	18.8
8H	18.4	18.7	18.9	19.2	19.6	17.7	18.0	18.2	18.5	18.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 1.2					+ 1.2 / - 1.0				
1.5H	+ 3.0 / - 1.1					+ 2.5 / - 1.0				
2.0H	+ 0.8 / - 0.4					+ 0.6 / - 0.4				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.000854865 m2

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UTILIZATION FACTORS TABLE

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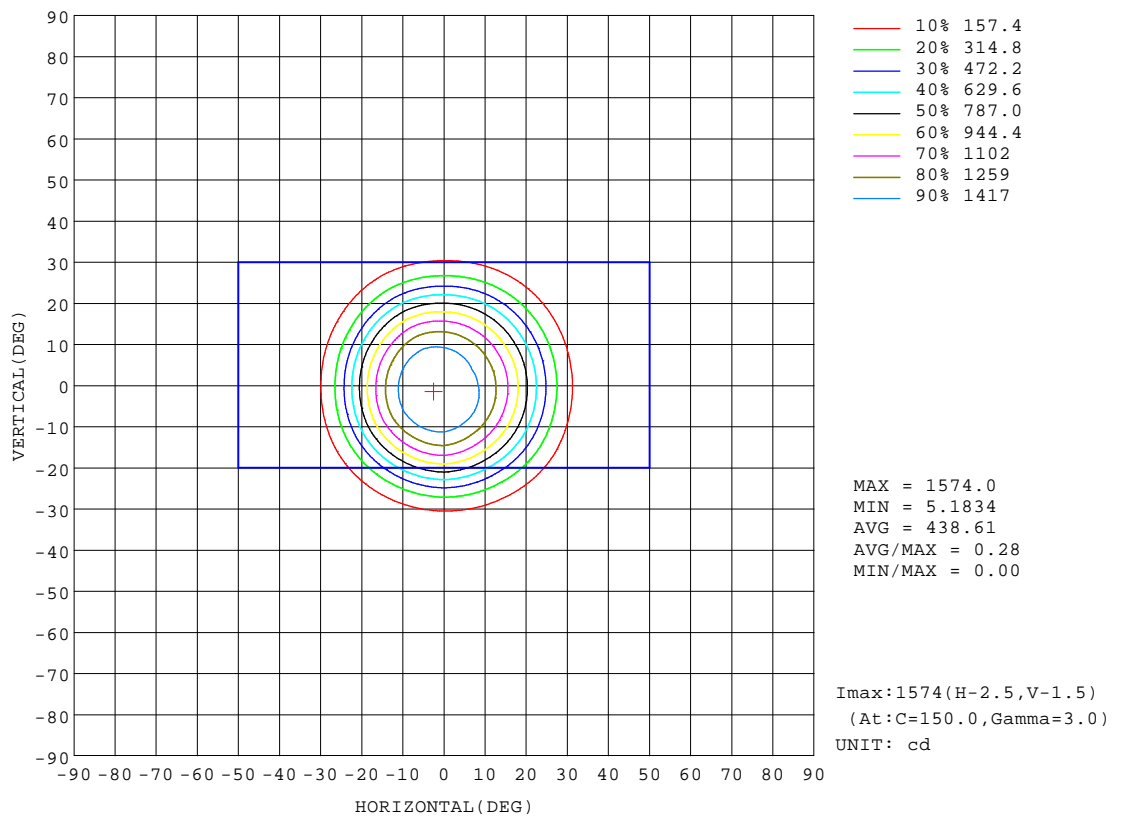
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	73	68	66	73	68	66	72	68	65	63
0.80	79	75	72	79	74	72	78	74	71	69
1.00	82	78	75	82	78	75	80	77	75	72
1.25	85	81	79	84	81	78	83	80	78	74
1.50	87	84	81	86	83	81	85	82	80	76
2.00	89	86	84	88	85	83	86	84	82	78
2.50	91	88	85	89	87	85	87	85	83	78
3.00	92	89	87	90	88	86	88	86	84	79
4.00	93	91	90	92	90	88	89	87	86	80
5.00	94	93	91	93	91	90	89	88	87	81
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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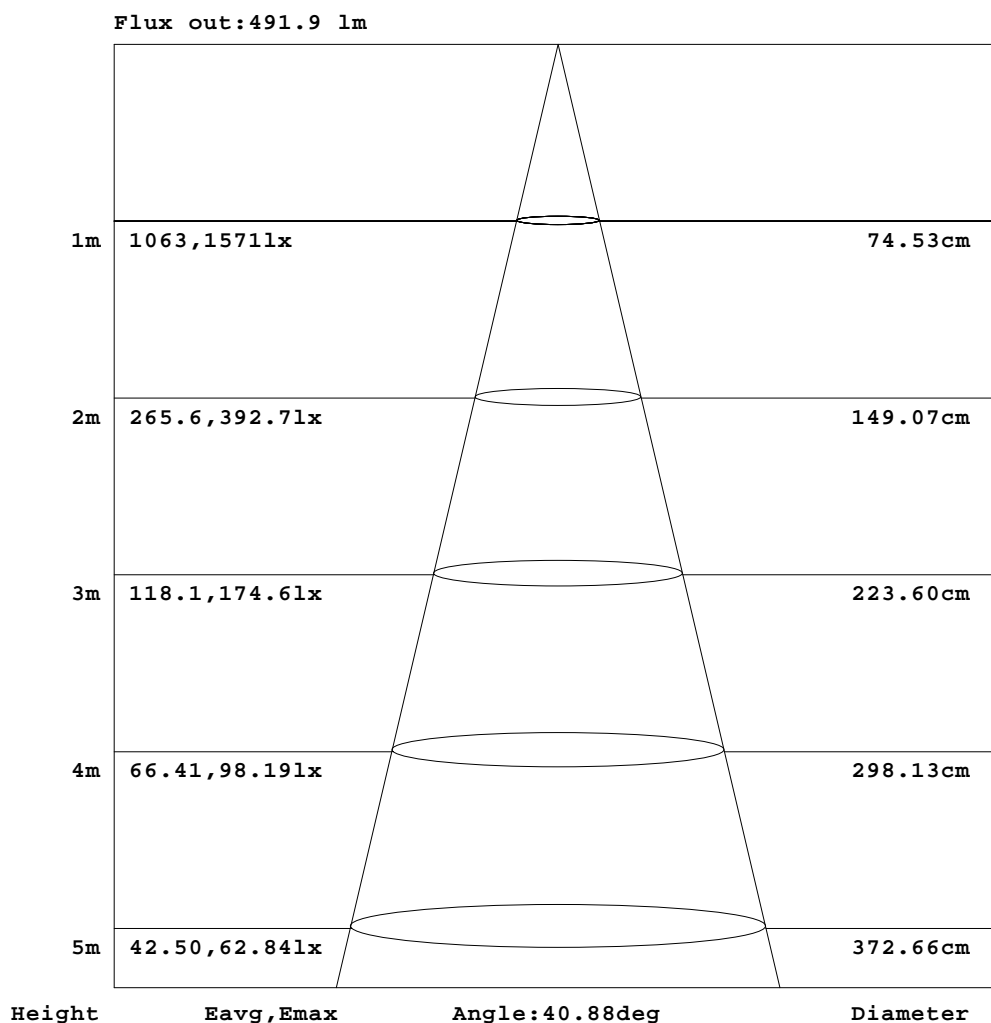


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AAI Figure

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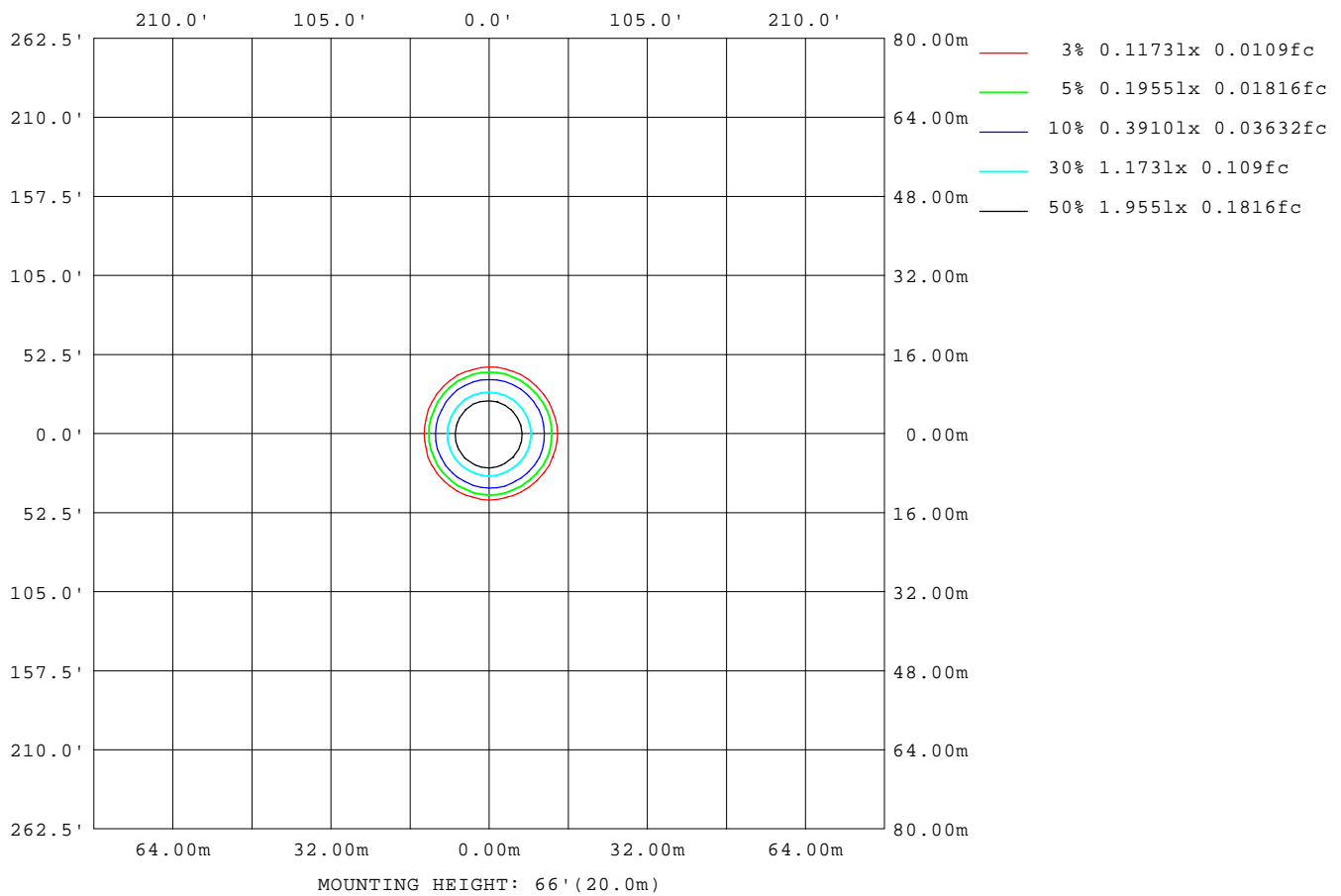
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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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-1084B 36R
DRIVER: 9290 028 088 250mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040978
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-8-4

γ Range: 0 - 180DEG
γ 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-1084B 36R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040978
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

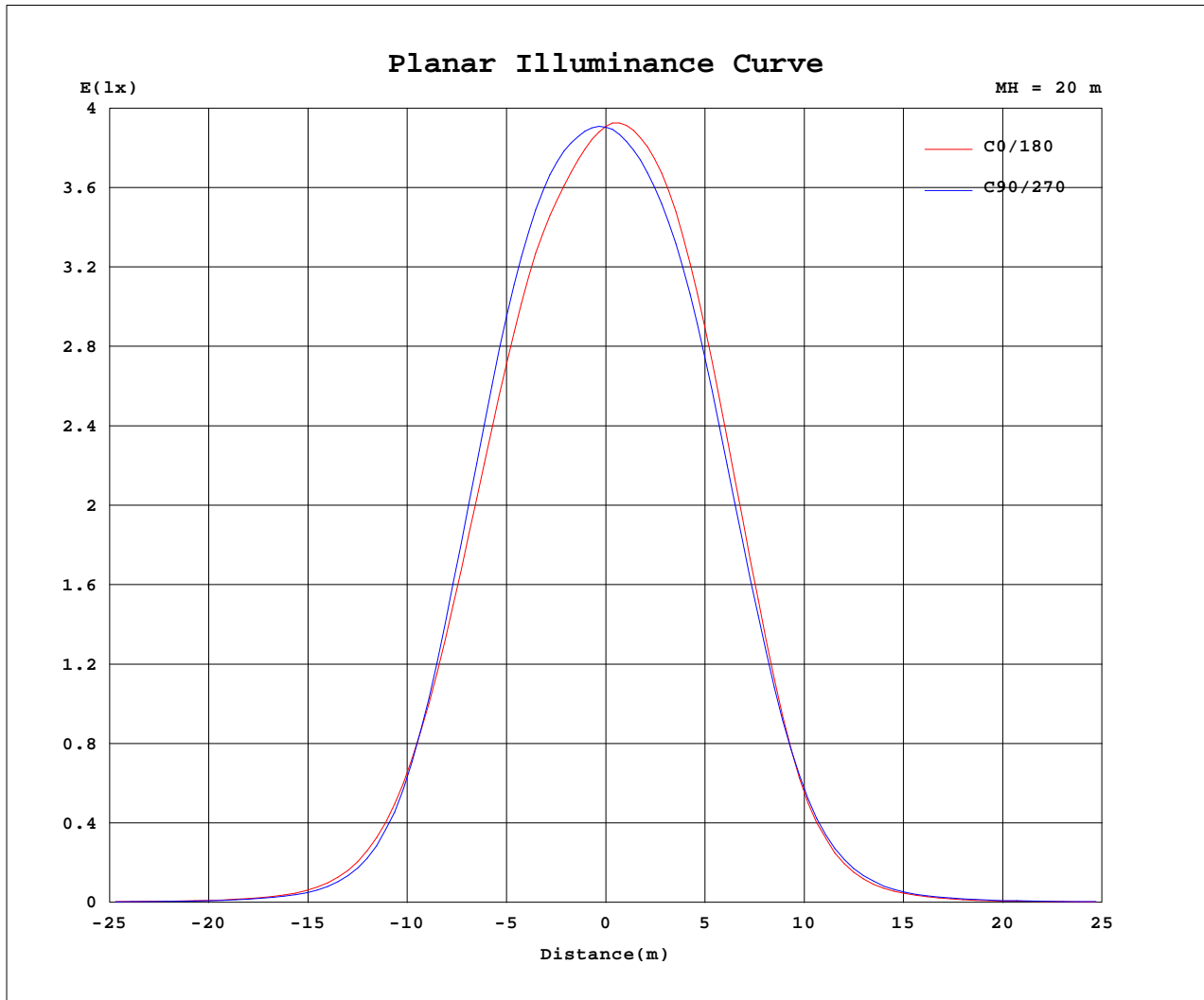
AvgL	cd/m2
L_0~180(65)av	11363
L_0~180(75)av	10787
L_0~180(85)av	4412
L_90~270(65)av	11695
L_90~270(75)av	10872
L_90~270(85)av	3794
L_45(65)av	11531
L_45(75)av	10819
L_45(85)av	5466

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

γ Range: 0 - 180DEG
γ 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-1084B 36R
DRIVER: 9290 028 088 250mA
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: 2023-8-4

γ Range: 0 - 180DEG
 γ 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-1084B 36R
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040978
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1562	1562	1562	1562	1562	1562	1562	1562	1562	1562	1562	1562						
5	1487	1501	1522	1549	1566	1570	1557	1547	1534	1514	1495	1482						
10	1368	1397	1425	1461	1473	1474	1456	1439	1423	1391	1366	1357						
15	1134	1153	1183	1237	1235	1241	1207	1184	1181	1144	1123	1119						
20	808	826	833	874	862	862	834	817	819	787	783	784						
25	461	464	449	463	444	443	416	411	428	415	430	443						
30	201	203	180	176	166	165	153	156	170	168	179	189						
35	72.7	71.8	62.1	59.4	57.1	55.7	52.9	54.9	60.4	60.9	65.3	67.5						
40	28.0	26.8	24.2	23.5	22.7	22.4	21.2	22.1	24.3	25.0	26.5	26.7						
45	12.7	12.2	11.7	11.1	10.4	10.3	9.96	10.5	11.6	12.0	12.5	12.4						
50	8.26	8.08	7.82	7.53	7.10	7.01	6.87	7.18	7.69	7.91	8.10	8.06						
55	5.96	5.93	5.77	5.59	5.39	5.32	5.27	5.46	5.76	5.83	5.86	5.85						
60	4.95	4.91	4.83	4.72	4.55	4.49	4.45	4.63	4.85	4.93	4.94	4.92						
65	4.33	4.31	4.25	4.14	3.97	3.90	3.88	4.02	4.22	4.31	4.34	4.32						
70	3.56	3.52	3.41	3.30	3.15	3.08	3.04	3.14	3.31	3.39	3.47	3.50						
75	2.61	2.57	2.47	2.39	2.28	2.21	2.17	2.23	2.36	2.42	2.50	2.53						
80	1.63	1.65	1.57	1.36	1.41	1.36	1.24	1.33	1.40	1.38	1.53	1.59						
85	0.51	0.61	0.53	0.35	0.36	0.29	0.15	0.21	0.27	0.22	0.41	0.50						
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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Operators:zoe
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