

Luminaire Photograph



Light Output Ratio:	76.5%	
Luminaire Power:	9.347 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: Zoe
Test Date: 2022-10-19

Range: 0 - 180DEG
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-1084C 50R
NO DRIVER: 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

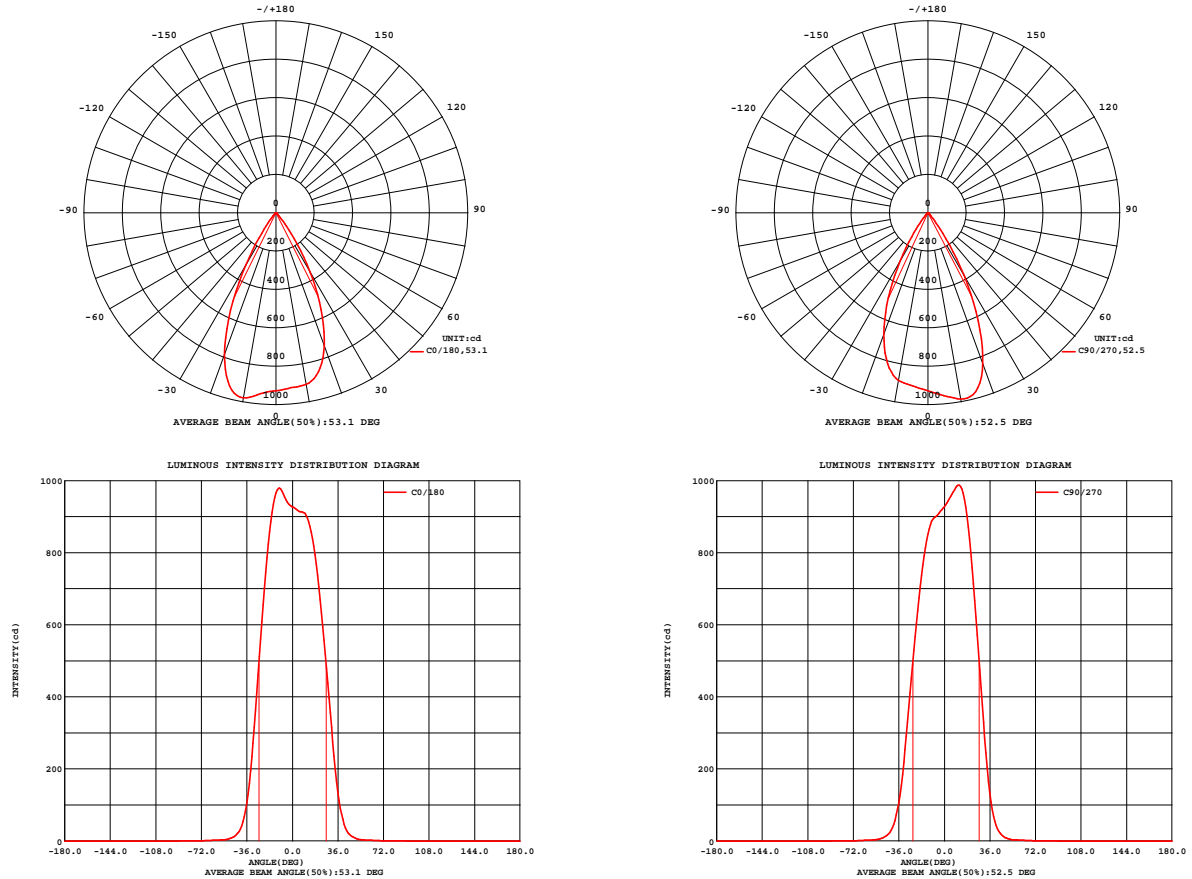


Fig. C0/C180

Fig. C90/C270

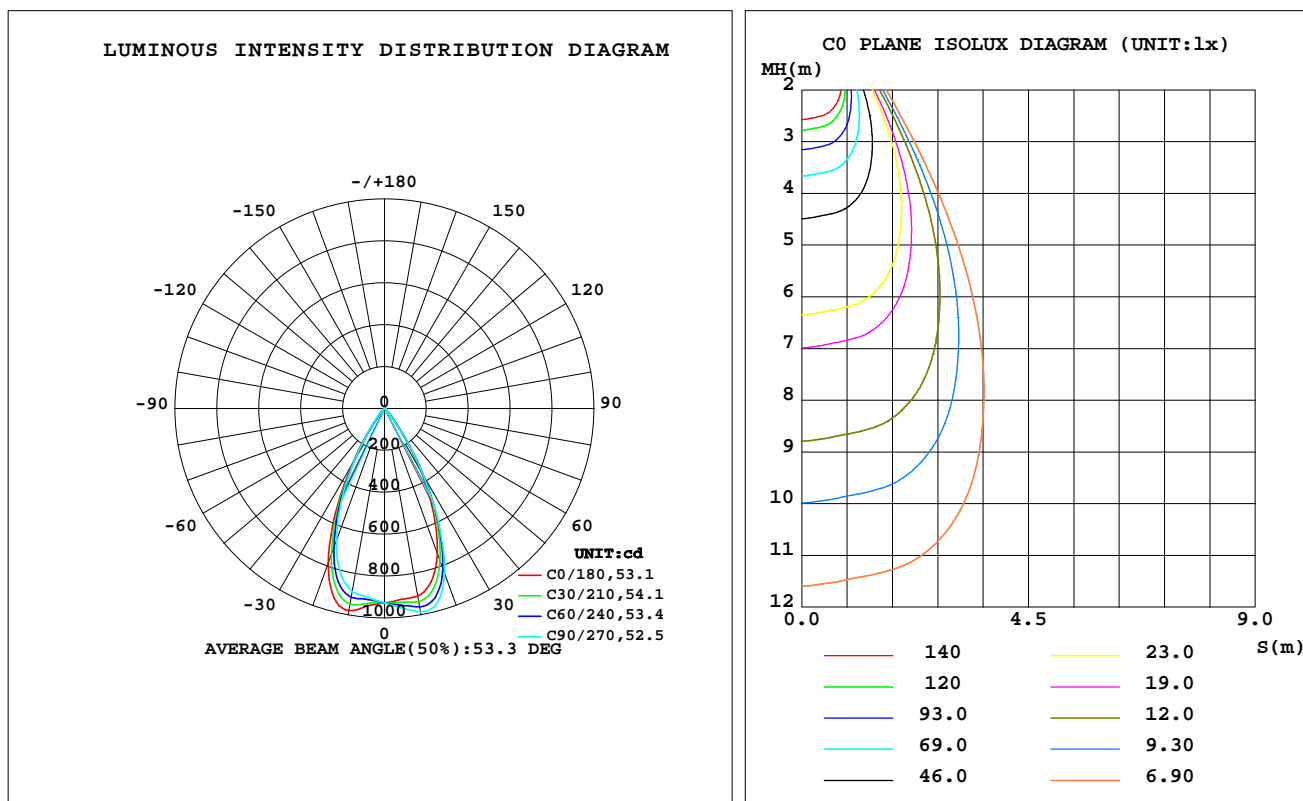
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:18.702V I:0.4998A P:9.3475W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191019
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.27 lm/W			
MODEL	CREE	I _{max} (cd)	992.6	S/MH(C0/180)	0.79
NOMINAL POWER(W)	9	LOR(%)	76.5	S/MH(C90/270)	0.77
RATED VOLTAGE(V)	18	TOTAL FLUX(lm)	703.55	UP,DN(C0-180)	0.0,40.1
NOMINAL FLUX(lm)	919.82	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,36.3
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	18	down(%)	76.5	CIBSE SHR MAX	0.80



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	908.6	948.6	985.3	989.7	979.4	931.1	886.9	886.2	0- 10	89.21	89.21	12.7,9.7
20	737.8	795.2	837.5	807.9	786.7	725.7	673.7	695.7	10- 20	245.9	335.1	47.6,36.4
30	355.6	382.1	377.0	322.6	315.2	294.3	290.8	323.6	20- 30	248.7	583.8	83,63.5
40	60.50	59.31	54.60	44.91	42.28	40.19	45.36	57.50	30- 40	98.71	682.5	97,74.2
50	7.699	6.946	6.670	6.041	6.043	6.102	6.854	7.866	40- 50	15.53	698.0	99.2,75.9
60	2.248	2.238	2.290	2.308	2.351	2.389	2.385	2.306	50- 60	3.232	701.3	99.7,76.2
70	0.8401	0.8568	0.8754	0.8551	0.8518	0.8156	0.8094	0.8317	60- 70	1.495	702.8	99.9,76.4
80	0.3506	0.3607	0.3755	0.3542	0.3529	0.3266	0.3222	0.3375	70- 80	0.6105	703.4	100,76.5
90	0	0	0	0	0	0	0	0	80- 90	0.1790	703.5	100,76.5
100	0	0	0	0	0	0	0	0	90-100	0	703.5	100,76.5
110	0	0	0	0	0	0	0	0	100-110	0	703.5	100,76.5
120	0	0	0	0	0	0	0	0	110-120	0	703.5	100,76.5
130	0	0	0	0	0	0	0	0	120-130	0	703.5	100,76.5
140	0	0	0	0	0	0	0	0	130-140	0	703.5	100,76.5
150	0	0	0	0	0	0	0	0	140-150	0	703.5	100,76.5
160	0	0	0	0	0	0	0	0	150-160	0	703.5	100,76.5
170	0	0	0	0	0	0	0	0	160-170	0	703.5	100,76.5
180	0	0	0	0	0	0	0	0	170-180	0	703.5	100,76.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:18.702V I:0.4998A P:9.3475W PF:1.0000 Freq:59.98Hz
Lamp Flux:919.82x1 lm

NAME: 2118.564-LEA-09B

TYPE:

WEIGHT:

SPEC.: 3000K

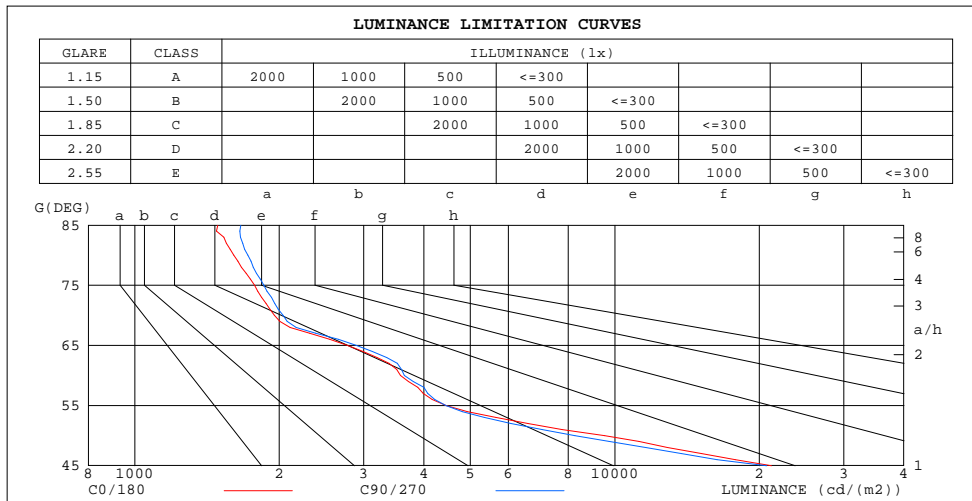
DIM.:

SERIAL No.: 2210191019

MFR.: RISE

SUR.: 0.001256m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	1490	1662
80	1607	1720
75	1775	1857
70	1955	2036
65	2773	2893
60	3578	3643
55	4456	4448
50	9532	8256
45	21194	20703

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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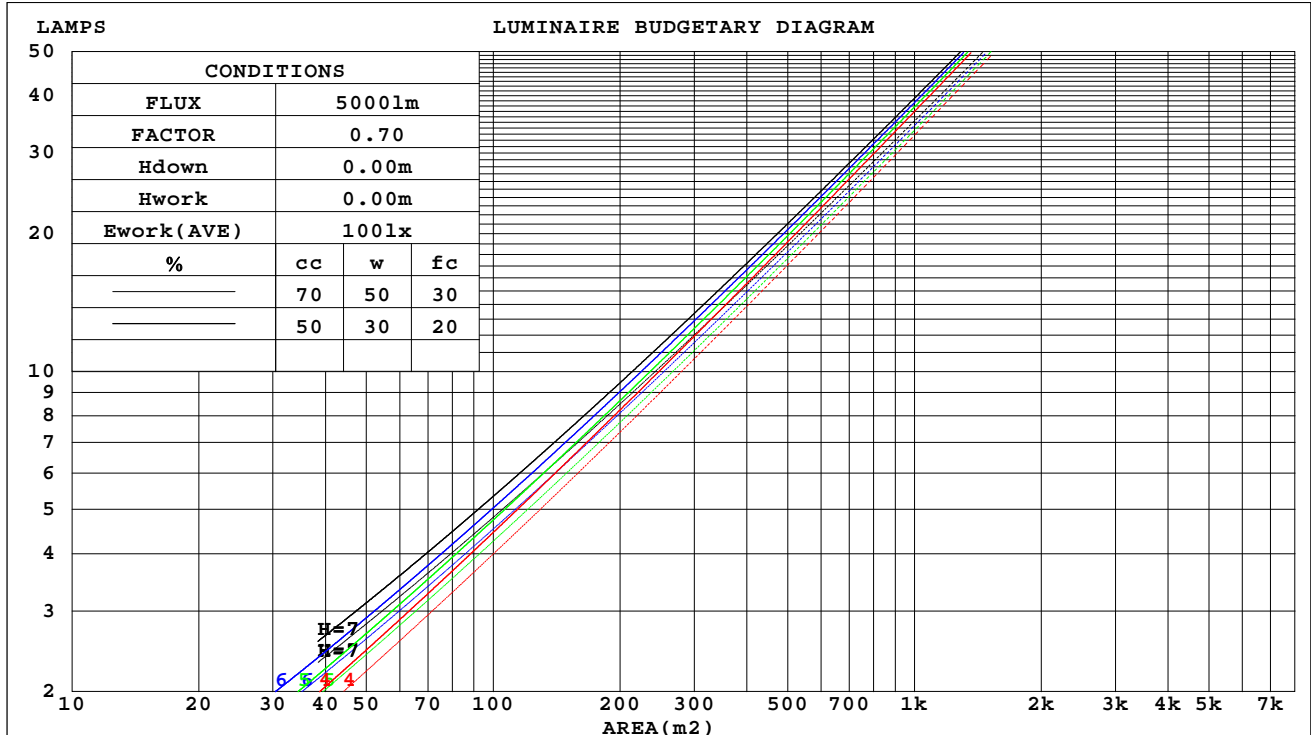
SERIAL No.: 2210191019

MFR.: RISE

SUR.: 0.001256m2

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.: 2210191019
MFR.: RISE	SUR.: 0.001256m2	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	.127	.072	.023	.122	.070	.022	.113	.065	.021	.104	.060	.019	.096	.055	.018		
2.0	.121	.066	.020	.117	.064	.020	.109	.060	.019	.101	.057	.018	.094	.053	.017		
3.0	.115	.061	.018	.111	.059	.018	.104	.057	.017	.098	.054	.016	.092	.051	.016		
4.0	.109	.057	.017	.106	.055	.016	.100	.053	.016	.095	.051	.015	.090	.049	.015		
5.0	.104	.053	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014	.087	.047	.014		
6.0	.099	.050	.014	.097	.049	.014	.093	.047	.014	.088	.046	.013	.084	.044	.013		
7.0	.095	.047	.013	.093	.046	.013	.089	.045	.013	.085	.044	.013	.082	.043	.013		
8.0	.091	.045	.013	.089	.044	.012	.086	.043	.012	.083	.042	.012	.079	.041	.012		
9.0	.087	.042	.012	.086	.042	.012	.083	.041	.012	.080	.040	.011	.077	.039	.011		
10.0	.084	.040	.011	.083	.040	.011	.080	.039	.011	.077	.038	.011	.075	.038	.011		

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	.146	.146	.146	.125	.125	.125	.085	.085	.085	.049	.049	.049	.016	.016	.016		
1.0	.130	.120	.111	.112	.103	.096	.076	.071	.066	.044	.041	.039	.014	.013	.012		
2.0	.118	.101	.087	.101	.087	.076	.069	.060	.053	.040	.035	.031	.013	.011	.010		
3.0	.108	.087	.070	.093	.075	.061	.064	.052	.042	.037	.030	.025	.012	.010	.008		
4.0	.100	.075	.057	.086	.065	.049	.059	.045	.035	.034	.027	.021	.011	.009	.007		
5.0	.093	.066	.047	.080	.057	.041	.055	.040	.029	.032	.024	.017	.010	.008	.006		
6.0	.087	.059	.039	.075	.051	.034	.052	.036	.024	.030	.021	.014	.010	.007	.005		
7.0	.082	.053	.033	.071	.046	.029	.049	.032	.020	.028	.019	.012	.009	.006	.004		
8.0	.078	.048	.028	.067	.042	.025	.046	.030	.018	.027	.017	.010	.009	.006	.003		
9.0	.074	.044	.025	.064	.039	.022	.044	.027	.015	.026	.016	.009	.008	.005	.003		
10.0	.070	.041	.022	.061	.036	.019	.042	.025	.013	.025	.015	.008	.008	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2210191019		
MFR.: RISE					SUR.: 0.001256m2			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	20.6	21.4	20.8	21.6	21.8	20.5	21.4	20.7	21.6	21.7
3H	20.4	21.2	20.7	21.4	21.6	20.4	21.2	20.6	21.4	21.6
4H	20.3	21.1	20.6	21.3	21.5	20.3	21.0	20.6	21.3	21.5
6H	20.2	21.0	20.5	21.2	21.4	20.2	20.9	20.5	21.2	21.4
8H	20.2	20.9	20.5	21.1	21.4	20.2	20.8	20.5	21.1	21.4
12H	20.2	20.8	20.5	21.1	21.4	20.1	20.8	20.4	21.0	21.3
4H 2H	20.3	21.1	20.6	21.3	21.5	20.3	21.0	20.6	21.3	21.5
3H	20.2	20.8	20.5	21.1	21.4	20.1	20.8	20.4	21.0	21.3
4H	20.1	20.7	20.4	21.0	21.3	20.0	20.6	20.4	20.9	21.2
6H	20.0	20.5	20.4	20.8	21.2	19.9	20.5	20.3	20.8	21.1
8H	19.9	20.4	20.3	20.8	21.1	19.9	20.4	20.3	20.7	21.1
12H	19.9	20.3	20.3	20.7	21.1	19.8	20.3	20.3	20.7	21.0
8H 4H	19.9	20.4	20.3	20.8	21.1	19.9	20.4	20.3	20.7	21.1
6H	19.8	20.2	20.3	20.6	21.0	19.8	20.2	20.2	20.6	21.0
8H	19.8	20.1	20.2	20.5	21.0	19.7	20.1	20.2	20.5	21.0
12H	19.7	20.0	20.2	20.5	20.9	19.7	20.0	20.2	20.4	20.9
12H 4H	19.9	20.3	20.3	20.7	21.1	19.8	20.3	20.2	20.7	21.0
6H	19.8	20.1	20.2	20.5	21.0	19.7	20.1	20.2	20.5	20.9
8H	19.7	20.0	20.2	20.5	20.9	19.7	20.0	20.2	20.4	20.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.9 / -11.2					+ 4.0 / -10.9				
1.5H	+ 6.5 / -10.3					+ 6.5 / -10.1				
2.0H	+ 5.9 / - 3.5					+ 5.9 / - 3.2				

CIE Pub.117, 919.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)
Area: 0.001256 m2

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UTILIZATION FACTORS TABLE

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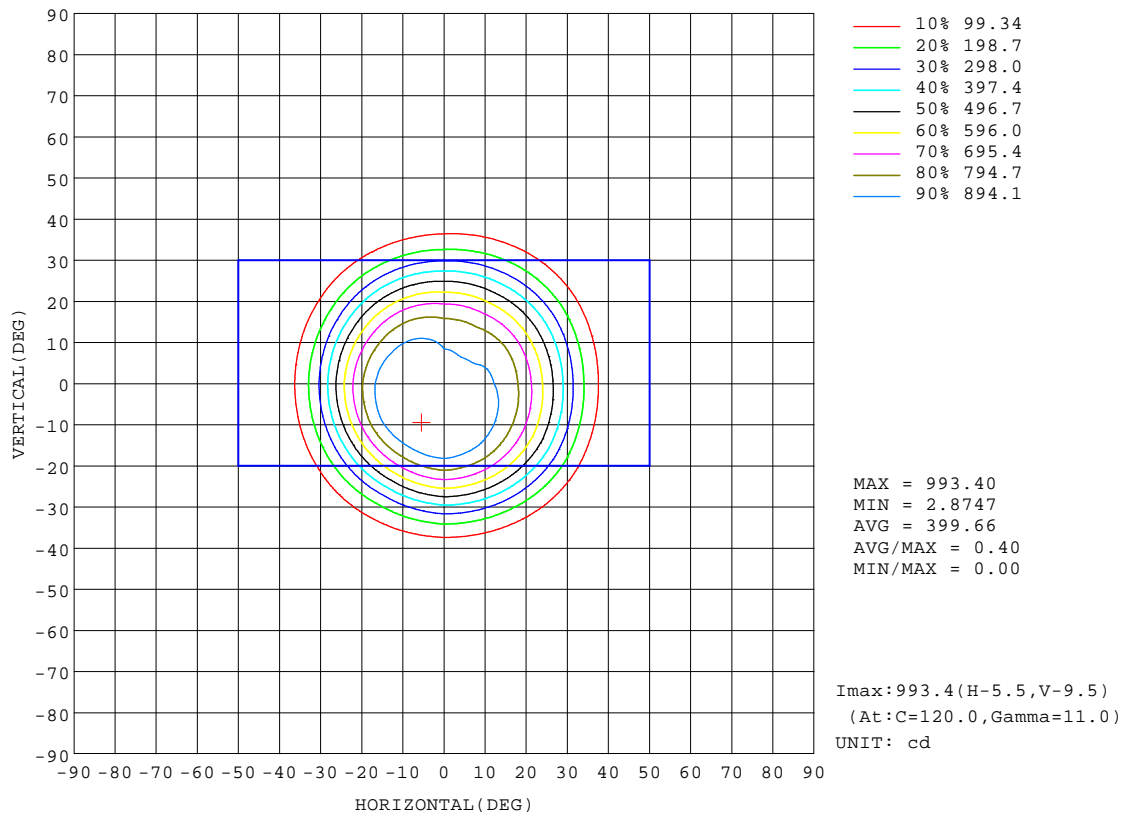
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	64	61	68	64	61	68	64	61	59
0.80	74	70	67	74	70	67	73	69	67	64
1.00	77	73	71	77	73	70	75	73	70	67
1.25	80	76	74	79	76	74	78	75	73	70
1.50	82	79	76	81	78	76	79	77	75	72
2.00	84	81	78	83	80	78	81	78	77	73
2.50	85	82	80	84	81	79	81	79	78	73
3.00	86	84	82	85	82	81	82	80	79	74
4.00	87	85	84	86	84	83	83	82	81	75
5.00	88	87	85	87	85	84	84	83	82	76
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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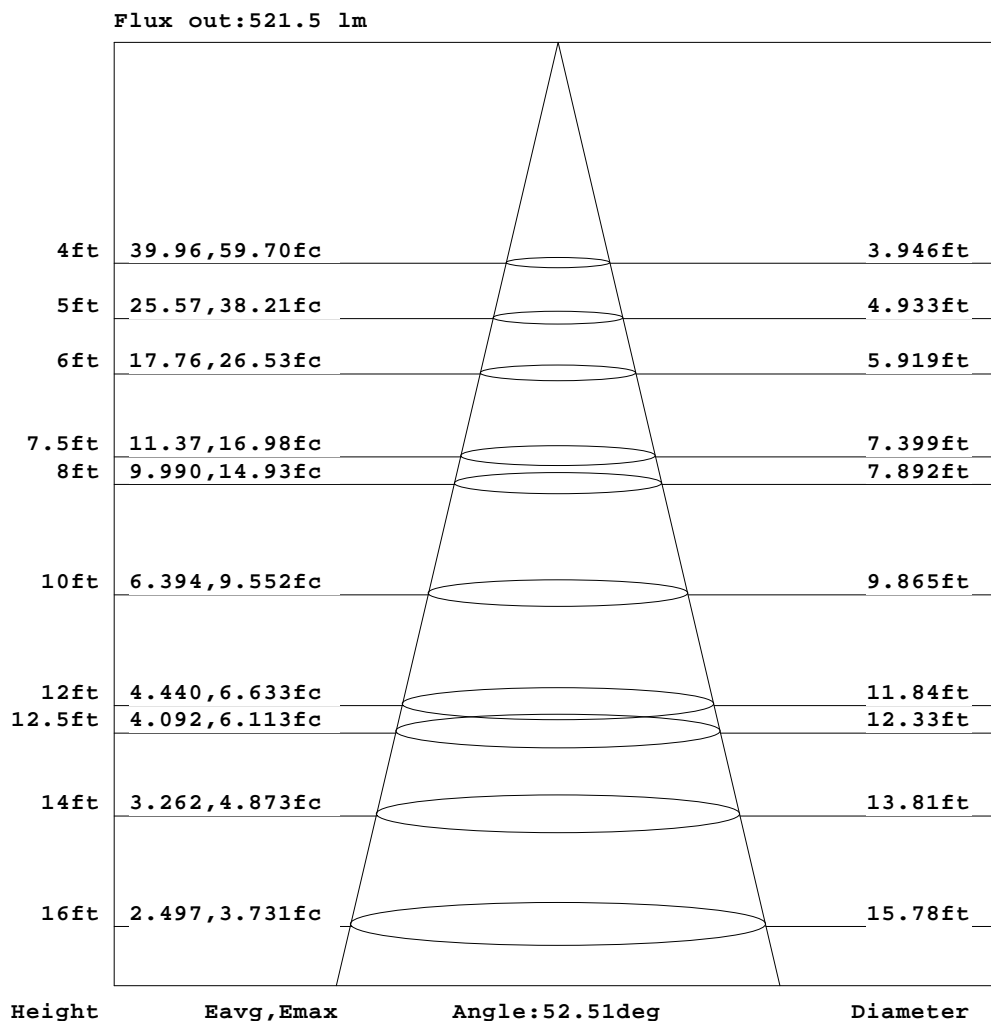


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AAI Figure

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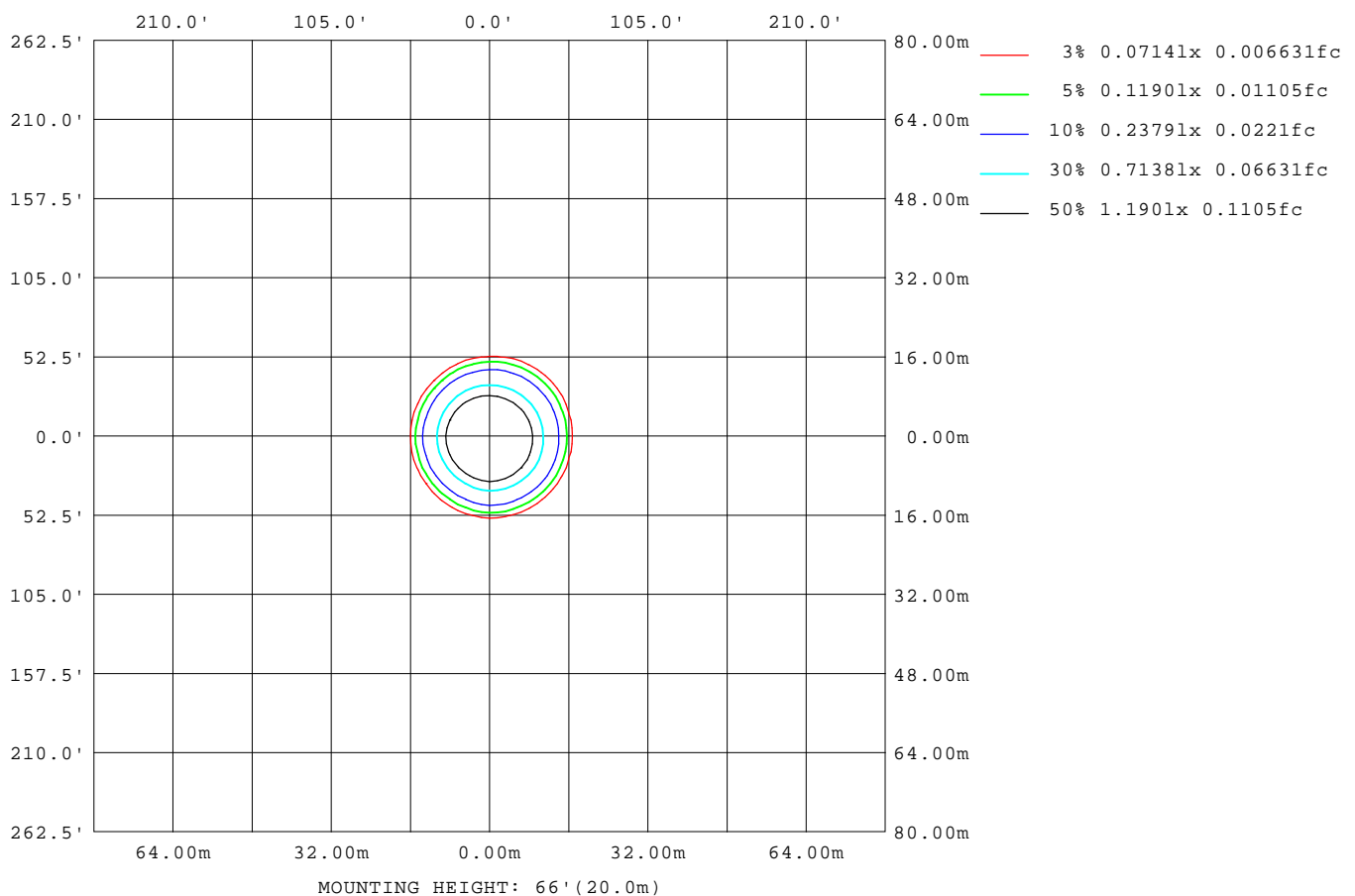
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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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-1084C 50R
NO DRIVER:500mA
30minutes warm-up

LED Avg.L Report

Test:U:18.702V I:0.4998A P:9.3475W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191019
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

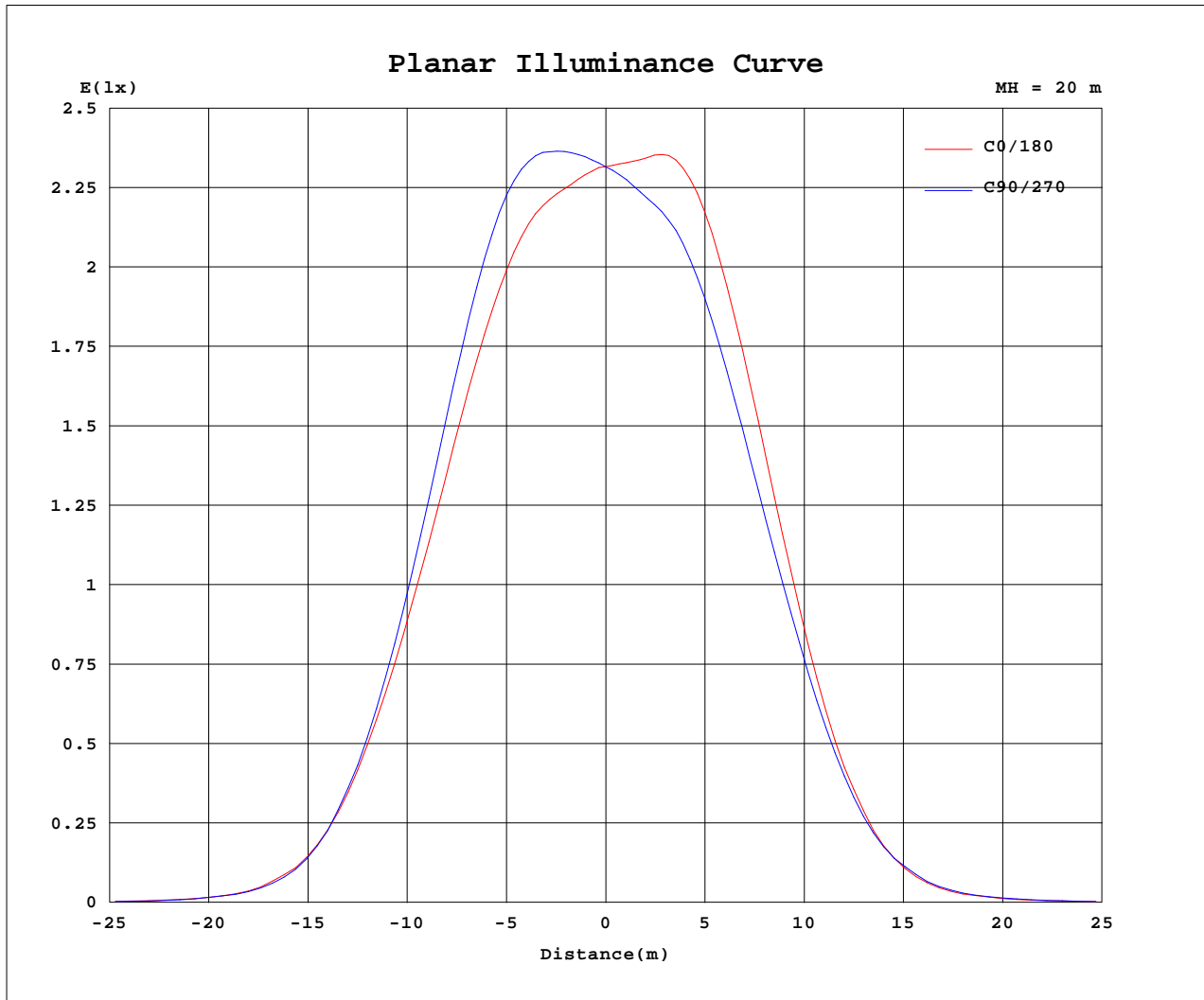
AvgL	cd/m2
L_0~180(65)av	2793
L_0~180(75)av	1778
L_0~180(85)av	1495
L_90~270(65)av	2802
L_90~270(75)av	1762
L_90~270(85)av	1495
L_45(65)av	2788
L_45(75)av	1751
L_45(85)av	1430

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Zoe
Test Date:2022-10-19

Range: 0 - 180DEG
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-1084C 50R
NO DRIVER: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: 2022-10-19

Range: 0 - 180DEG
 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-1084C 50R
 NO DRIVER: 500mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:18.702V I:0.4998A P:9.3475W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191019
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	927	927	927	927	927	927	927	927	927	927	927	927						
5	915	928	943	956	961	955	947	933	915	906	902	906						
10	909	936	961	985	992	987	979	948	915	887	882	891						
15	857	894	934	965	953	954	935	890	856	813	812	844						
20	738	775	815	838	810	805	787	742	709	674	678	713						
25	558	595	611	620	580	567	561	528	507	490	500	531						
30	356	384	380	377	328	318	315	296	292	291	309	339						
35	167	183	170	165	139	131	130	121	122	128	145	162						
40	60.5	59.7	59.0	54.6	47.3	42.6	42.3	39.3	41.1	45.4	53.8	61.2						
45	18.8	19.6	17.8	18.4	15.5	14.6	14.5	13.5	14.7	16.4	20.1	20.0						
50	7.70	7.09	6.80	6.67	6.14	5.94	6.04	5.90	6.30	6.85	7.74	8.00						
55	3.21	3.19	3.15	3.21	3.11	3.07	3.13	3.11	3.16	3.20	3.27	3.25						
60	2.25	2.24	2.24	2.29	2.30	2.32	2.35	2.37	2.41	2.38	2.33	2.28						
65	1.47	1.50	1.51	1.54	1.50	1.46	1.49	1.43	1.45	1.44	1.48	1.51						
70	0.84	0.85	0.86	0.88	0.86	0.85	0.85	0.82	0.81	0.81	0.82	0.84						
75	0.58	0.59	0.59	0.60	0.59	0.58	0.58	0.55	0.54	0.54	0.55	0.57						
80	0.35	0.36	0.36	0.38	0.36	0.35	0.35	0.33	0.32	0.32	0.33	0.34						
85	0.16	0.17	0.17	0.18	0.17	0.16	0.16	0.15	0.14	0.15	0.15	0.16						
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℃
Operators:Zoe
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Range: 0 - 180DEG
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