

Luminaire Photograph



Light Output Ratio:	76.2%	
Luminaire Power:	20.93 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: 2024-7-26

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: BXRE-30G1000-A-83 Ra:90
LENS: PM-1083C 50R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

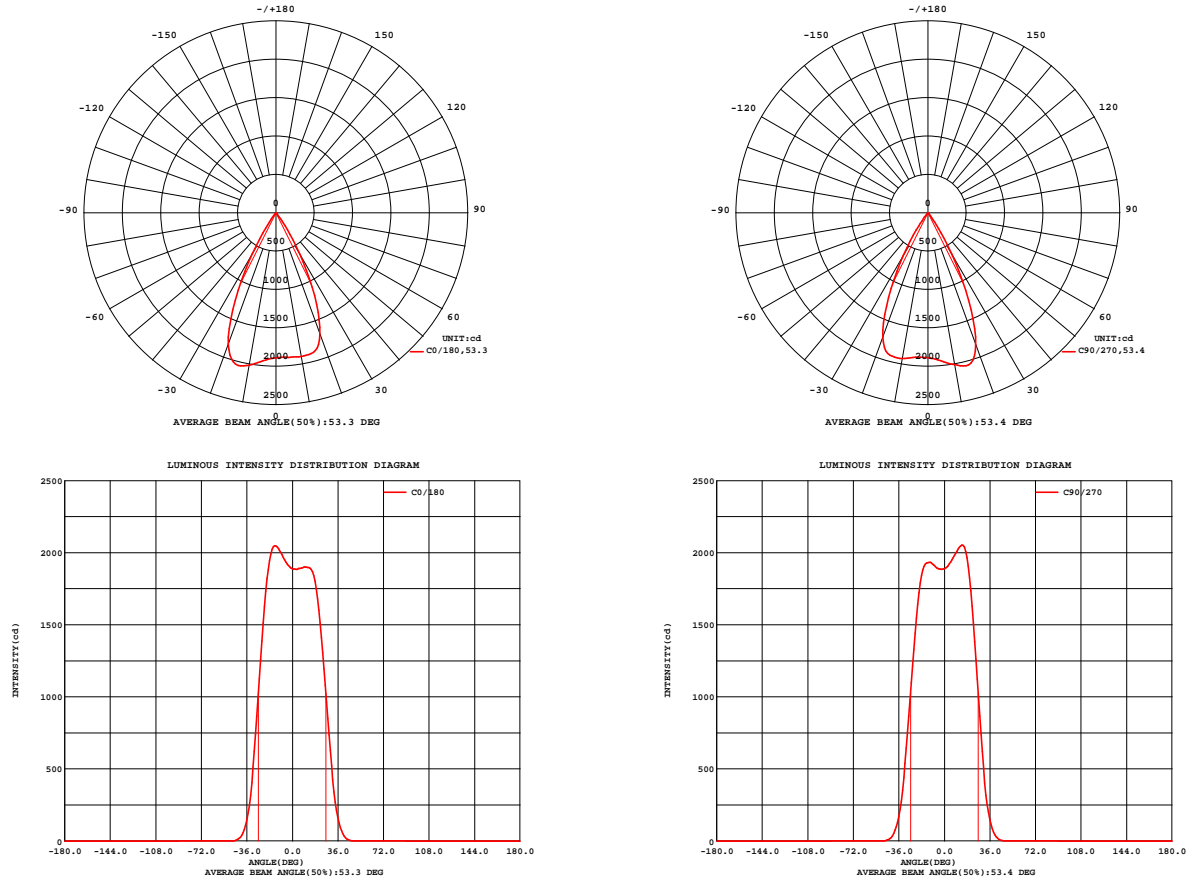


Fig. C0/C180

Fig. C90/C270

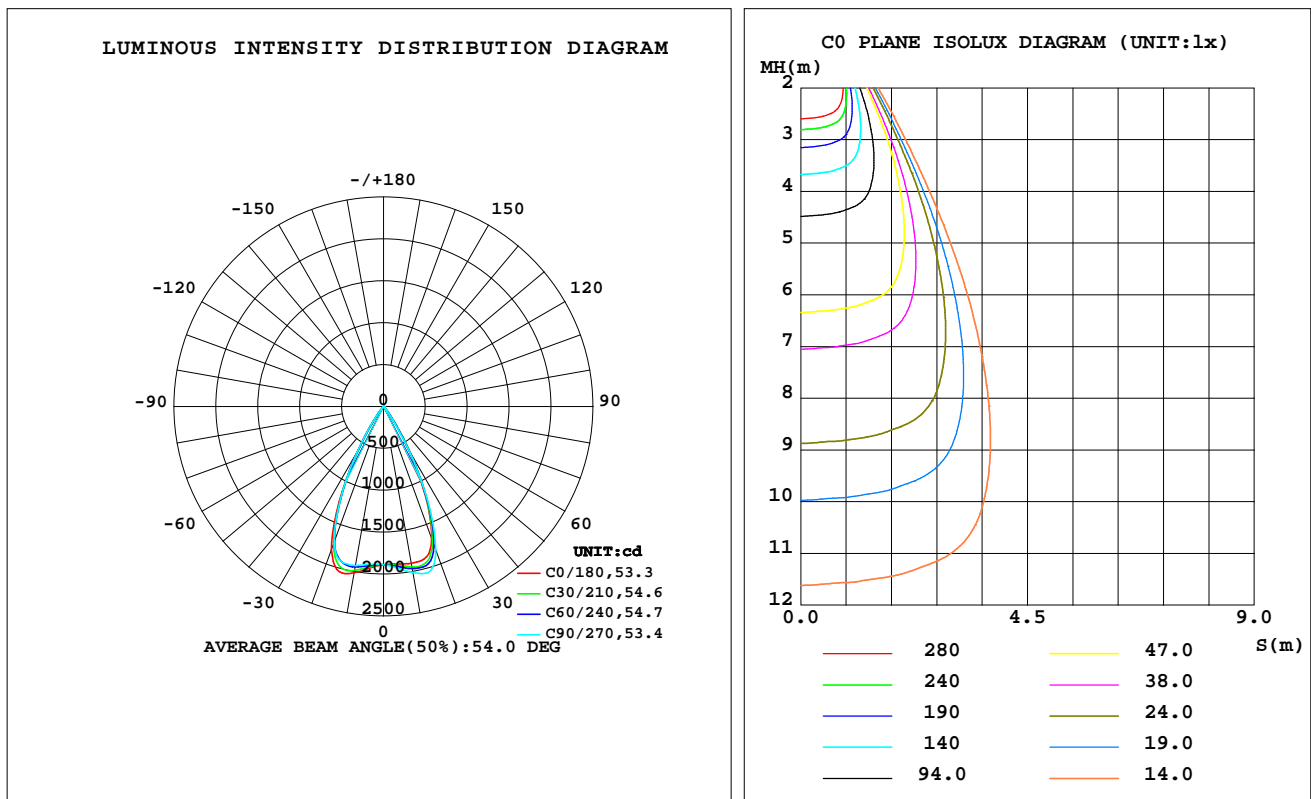
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.1753A P:20.934W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260950
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.05 lm/W			
MODEL	Bridgelux	Imax(cd)	2086	S/MH(C0/180)	0.79
NOMINAL POWER(W)	20	LOR(%)	76.2	S/MH(C90/270)	0.80
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1445.5	UP,DN(C0-180)	0.0,38.6
NOMINAL FLUX(lm)	1897.7	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,37.5
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	down(%)	76.2	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	1902	1953	2009	2032	2015	1966	1929	1911	0- 10	184.3	184.3	12.7,9.71
20	1681	1735	1825	1854	1819	1732	1722	1661	10- 20	544.4	728.6	50.4,38.4
30	627.0	648.6	619.9	680.4	620.4	632.6	643.5	631.8	20- 30	548.4	1277	88.3,67.3
40	49.24	54.47	43.27	51.95	38.05	43.60	51.10	52.00	30- 40	157.5	1435	99.2,75.6
50	1.004	1.322	0.7948	1.164	0.4609	1.338	0.7958	1.089	40- 50	10.34	1445	100,76.1
60	0.3183	0.2682	0.1409	0.1734	0.1668	0.1987	0.1989	0.2750	50- 60	0.4192	1445	100,76.2
70	0.0613	0.0383	0.0419	0.0504	0.0777	0.0483	0.0339	0.0387	60- 70	0.1071	1445	100,76.2
80	0.0375	0.0225	0.0323	0.0267	0.0375	0.0200	0.0264	0.0200	70- 80	0.0350	1445	100,76.2
90	0	0	0	0	0	0	0	0	80- 90	0.0245	1445	100,76.2
100	0	0	0	0	0	0	0	0	90-100	0	1445	100,76.2
110	0	0	0	0	0	0	0	0	100-110	0	1445	100,76.2
120	0	0	0	0	0	0	0	0	110-120	0	1445	100,76.2
130	0	0	0	0	0	0	0	0	120-130	0	1445	100,76.2
140	0	0	0	0	0	0	0	0	130-140	0	1445	100,76.2
150	0	0	0	0	0	0	0	0	140-150	0	1445	100,76.2
160	0	0	0	0	0	0	0	0	150-160	0	1445	100,76.2
170	0	0	0	0	0	0	0	0	160-170	0	1445	100,76.2
180	0	0	0	0	0	0	0	0	170-180	0	1445	100,76.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.1753A P:20.934W PF:0.9935 Freq:59.98Hz
Lamp Flux:1897.7x1 lm

NAME: 2418.121-LEA-15

TYPE:

WEIGHT:

SPEC.: 3000K

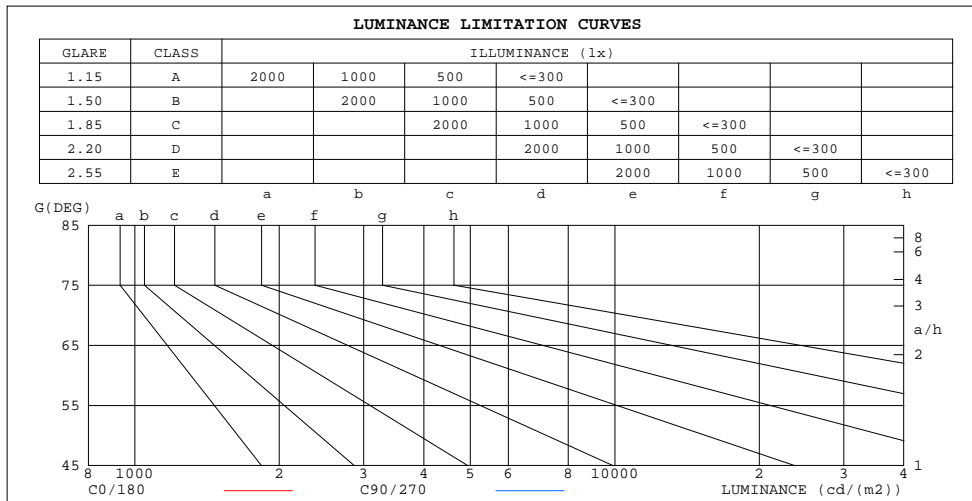
DIM.:

SERIAL No.: 2407260950

MFR.: RISE

SUR.: 0.0064m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	63	52
80	34	29
75	27	22
70	28	19
65	43	26
60	100	44
55	143	117
50	244	193
45	1221	962

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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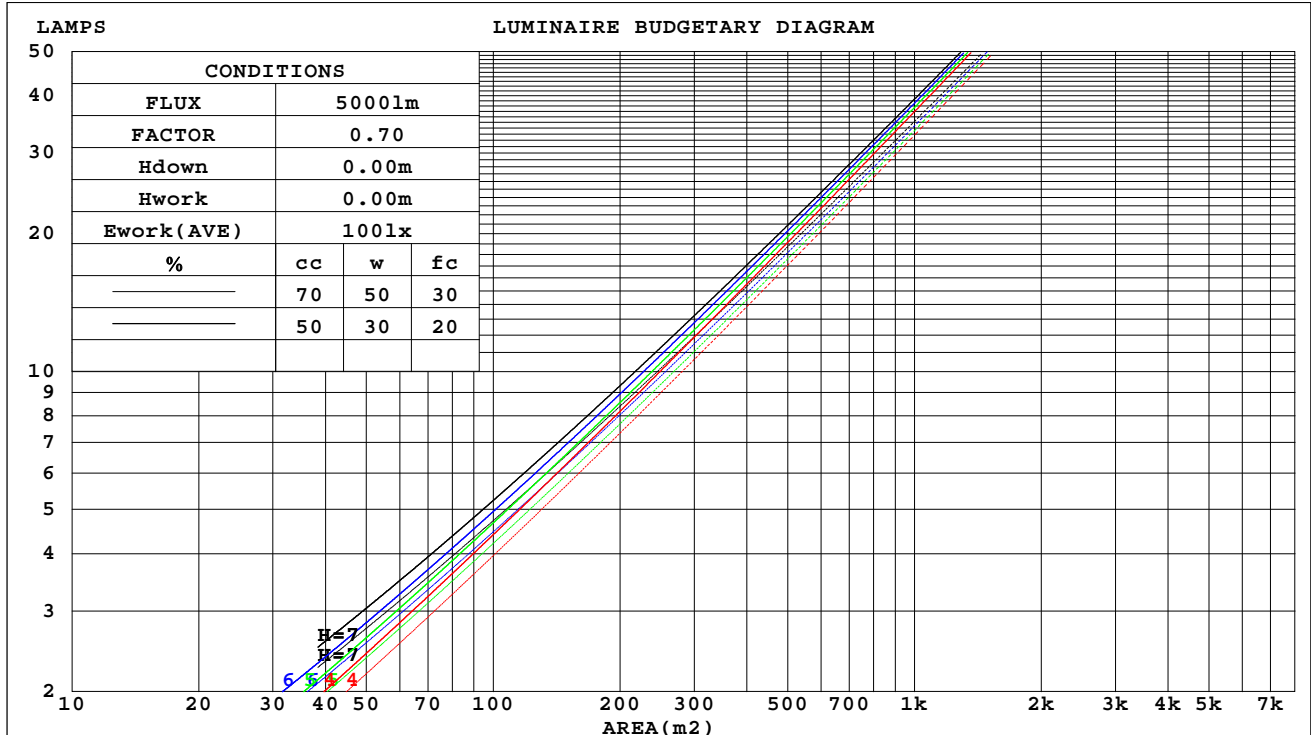
SERIAL No.: 2407260950

MFR.: RISE

SUR.: 0.0064m2

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.: 2407260950
MFR.: RISE	SUR.: 0.0064m2	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	.123	.070	.022	.118	.067	.021	.108	.062	.020	.099	.057	.018	.091	.053	.017	
2.0	.116	.064	.020	.112	.062	.019	.104	.058	.018	.097	.054	.017	.090	.051	.016	
3.0	.110	.059	.018	.107	.057	.017	.100	.054	.016	.094	.051	.016	.088	.049	.015	
4.0	.105	.054	.016	.102	.053	.016	.096	.051	.015	.091	.049	.015	.086	.046	.014	
5.0	.100	.051	.015	.097	.050	.015	.092	.048	.014	.088	.046	.014	.083	.044	.013	
6.0	.095	.048	.014	.093	.047	.014	.089	.045	.013	.085	.044	.013	.081	.043	.013	
7.0	.091	.045	.013	.089	.045	.013	.086	.043	.012	.082	.042	.012	.079	.041	.012	
8.0	.088	.043	.012	.086	.042	.012	.083	.041	.012	.079	.040	.012	.076	.039	.011	
9.0	.084	.041	.011	.083	.040	.011	.080	.039	.011	.077	.039	.011	.074	.038	.011	
10.0	.081	.039	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	.072	.036	.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	.145	.145	.145	.124	.124	.124	.085	.085	.085	.049	.049	.049	.016	.016	.016	
1.0	.130	.120	.111	.111	.103	.096	.076	.071	.066	.044	.041	.039	.014	.013	.012	
2.0	.117	.101	.087	.100	.087	.076	.069	.060	.053	.040	.035	.031	.013	.011	.010	
3.0	.107	.086	.070	.092	.075	.061	.063	.052	.043	.036	.030	.025	.012	.010	.008	
4.0	.098	.075	.057	.085	.065	.050	.058	.045	.035	.034	.026	.021	.011	.009	.007	
5.0	.091	.066	.047	.079	.057	.041	.054	.040	.029	.031	.023	.017	.010	.008	.006	
6.0	.086	.059	.040	.074	.051	.034	.051	.036	.024	.029	.021	.014	.009	.007	.005	
7.0	.080	.053	.033	.069	.046	.029	.048	.032	.021	.028	.019	.012	.009	.006	.004	
8.0	.076	.048	.029	.065	.042	.025	.045	.029	.018	.026	.017	.011	.009	.006	.004	
9.0	.072	.044	.025	.062	.038	.022	.043	.027	.015	.025	.016	.009	.008	.005	.003	
10.0	.069	.041	.022	.059	.035	.019	.041	.025	.014	.024	.015	.008	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2407260950		
MFR.: RISE					SUR.: 0.0064m2			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	12.1	12.9	12.3	13.1	13.2	11.6	12.5	11.8	12.6	12.8
3H	11.9	12.7	12.2	12.9	13.1	11.5	12.2	11.7	12.4	12.6
4H	11.8	12.6	12.1	12.8	13.0	11.4	12.1	11.6	12.3	12.5
6H	11.7	12.4	12.0	12.7	12.9	11.3	12.0	11.6	12.2	12.4
8H	11.7	12.4	12.0	12.6	12.9	11.2	11.9	11.5	12.1	12.4
12H	11.7	12.3	12.0	12.5	12.8	11.2	11.8	11.5	12.1	12.4
4H 2H	11.8	12.6	12.1	12.8	13.0	11.4	12.1	11.6	12.3	12.5
3H	11.7	12.3	12.0	12.5	12.8	11.2	11.8	11.5	12.1	12.4
4H	11.6	12.1	11.9	12.4	12.7	11.1	11.7	11.4	12.0	12.3
6H	11.5	12.0	11.8	12.3	12.6	11.0	11.5	11.4	11.8	12.2
8H	11.4	11.9	11.8	12.2	12.6	10.9	11.4	11.3	11.8	12.1
12H	11.4	11.8	11.8	12.2	12.5	10.9	11.3	11.3	11.7	12.1
8H 4H	11.4	11.9	11.8	12.2	12.6	10.9	11.4	11.3	11.8	12.1
6H	11.3	11.7	11.7	12.1	12.5	10.8	11.2	11.3	11.6	12.0
8H	11.2	11.6	11.7	12.0	12.4	10.8	11.1	11.2	11.5	12.0
12H	11.2	11.5	11.7	11.9	12.4	10.7	11.0	11.2	11.5	11.9
12H 4H	11.4	11.8	11.8	12.2	12.5	10.9	11.3	11.3	11.7	12.1
6H	11.2	11.6	11.7	12.0	12.4	10.8	11.1	11.2	11.5	12.0
8H	11.2	11.5	11.7	11.9	12.4	10.7	11.0	11.2	11.5	11.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.6 / -26.5					+ 4.5 / -28.2				
1.5H	+ 7.4 / -24.2					+ 7.3 / -23.9				
2.0H	+ 7.6 / -10.4					+ 7.6 / -13.1				

CIE Pub.117, 1898 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.2)
Area: 0.0064 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

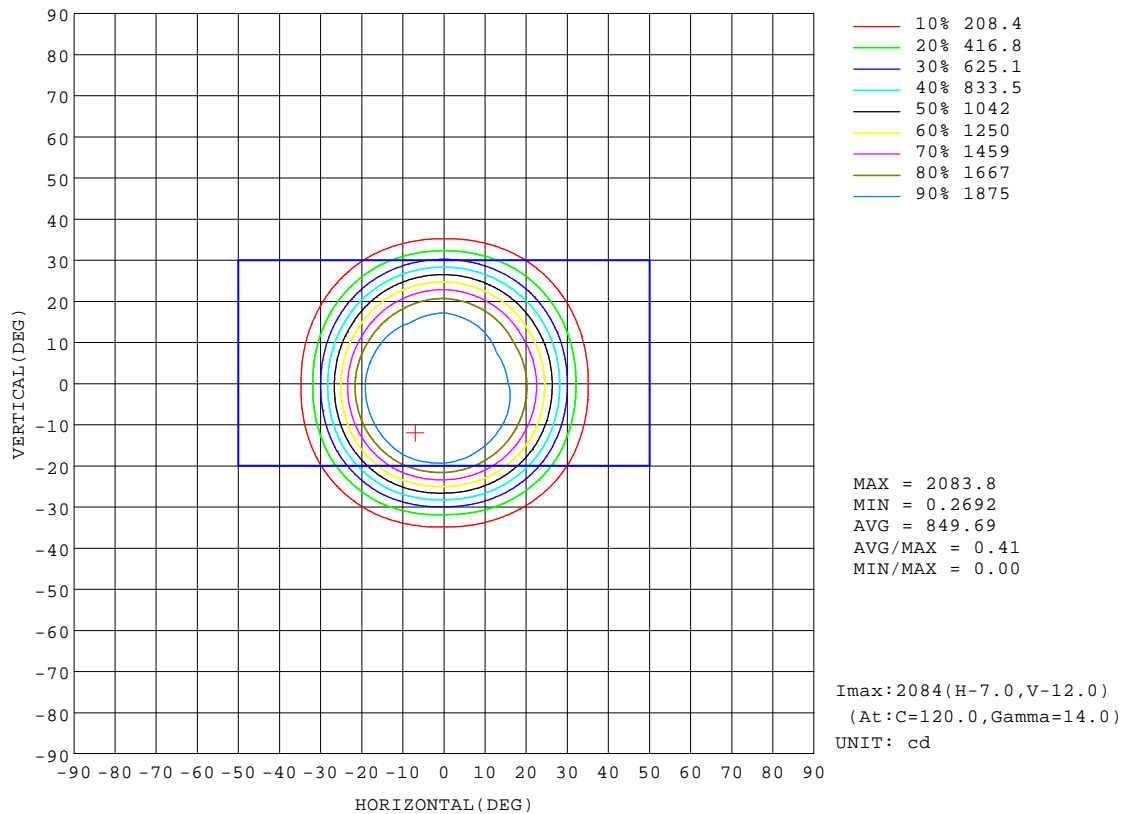
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	65	63	69	65	62	68	65	62	60
0.80	75	71	68	74	70	68	73	70	68	65
1.00	78	74	71	77	73	71	76	73	71	68
1.25	80	77	74	79	76	74	78	75	73	71
1.50	82	79	77	81	78	76	80	77	75	72
2.00	84	81	79	83	80	78	81	79	77	73
2.50	85	82	80	84	81	79	81	79	78	74
3.00	86	84	82	85	82	81	82	80	79	74
4.00	87	85	84	86	84	83	83	82	81	76
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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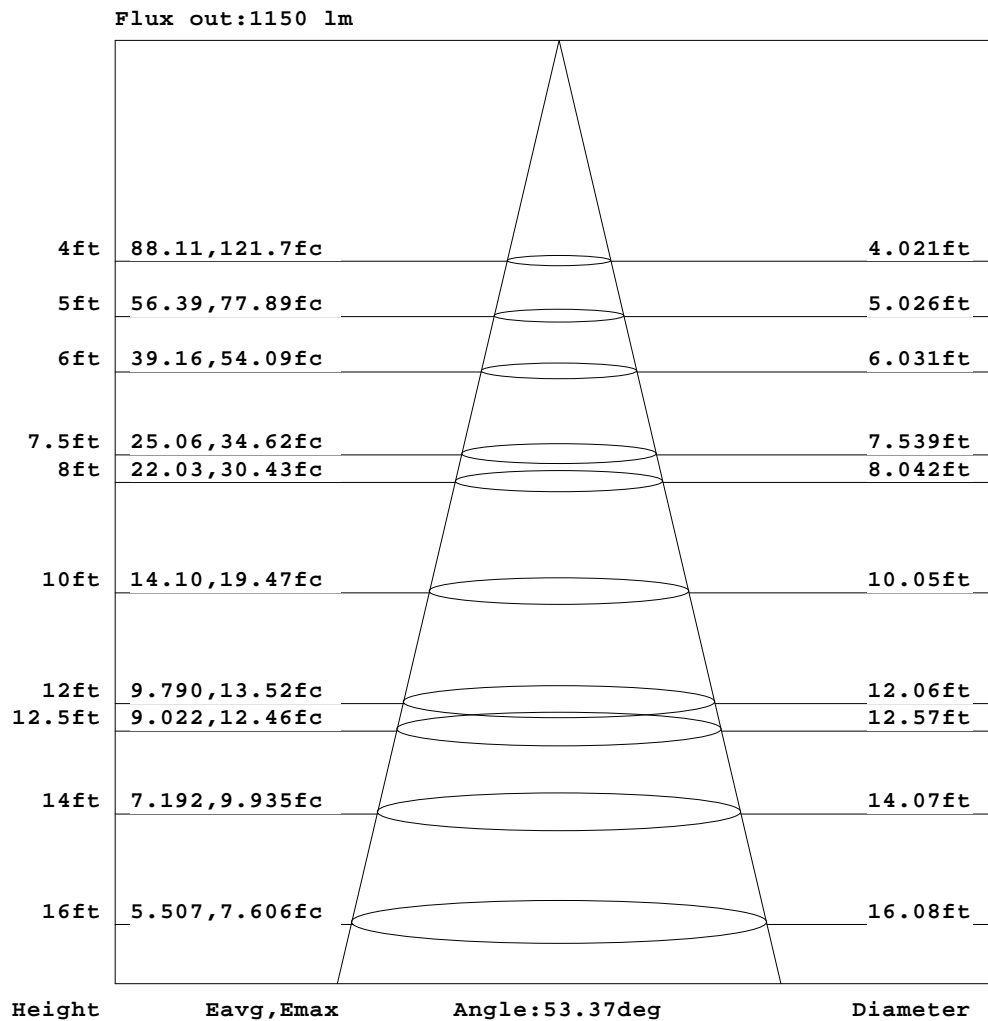


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AAI Figure

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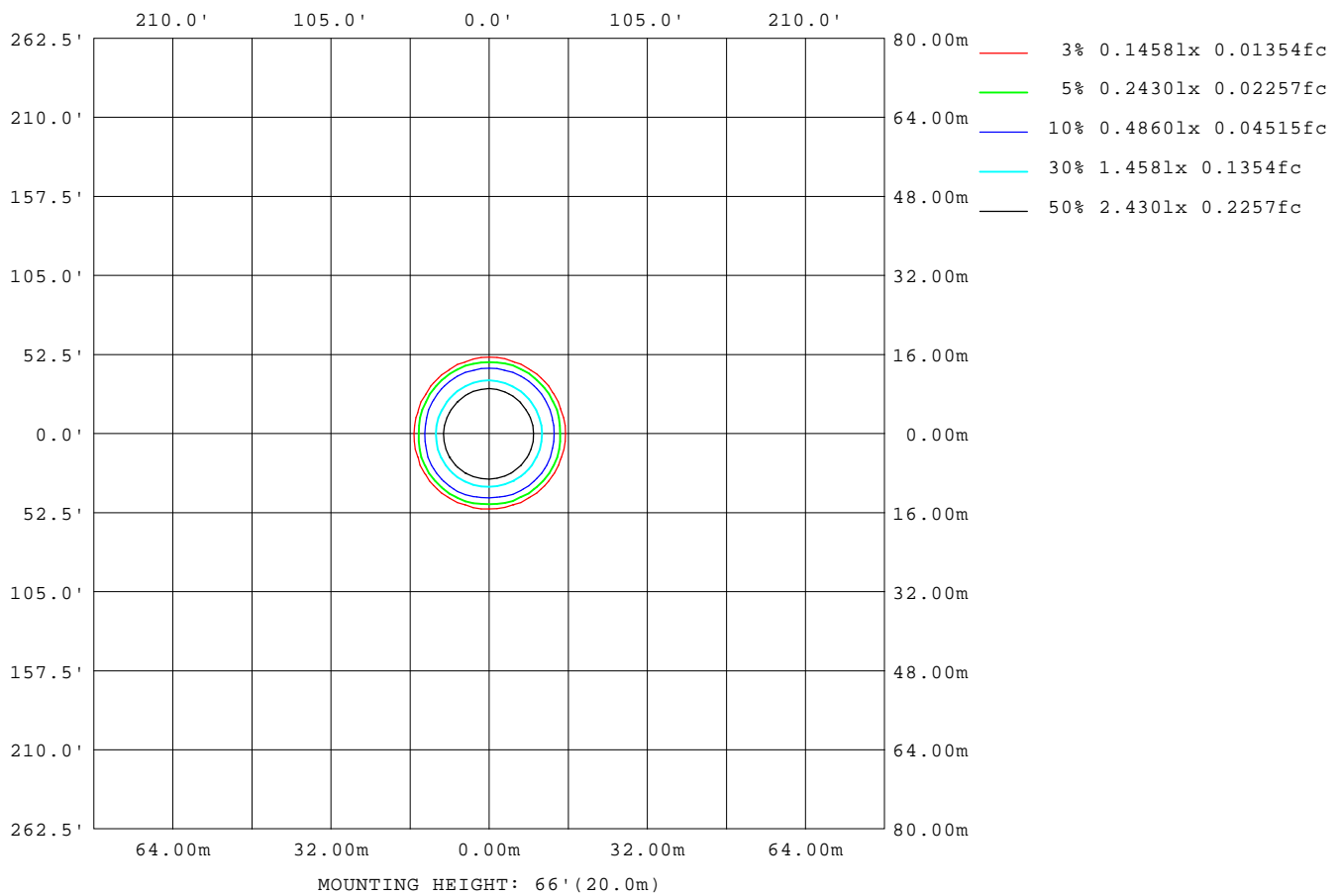
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS;PM-1083C 50R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LED Avg.L Report

Test:U:120.05V I:0.1753A P:20.934W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260950
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

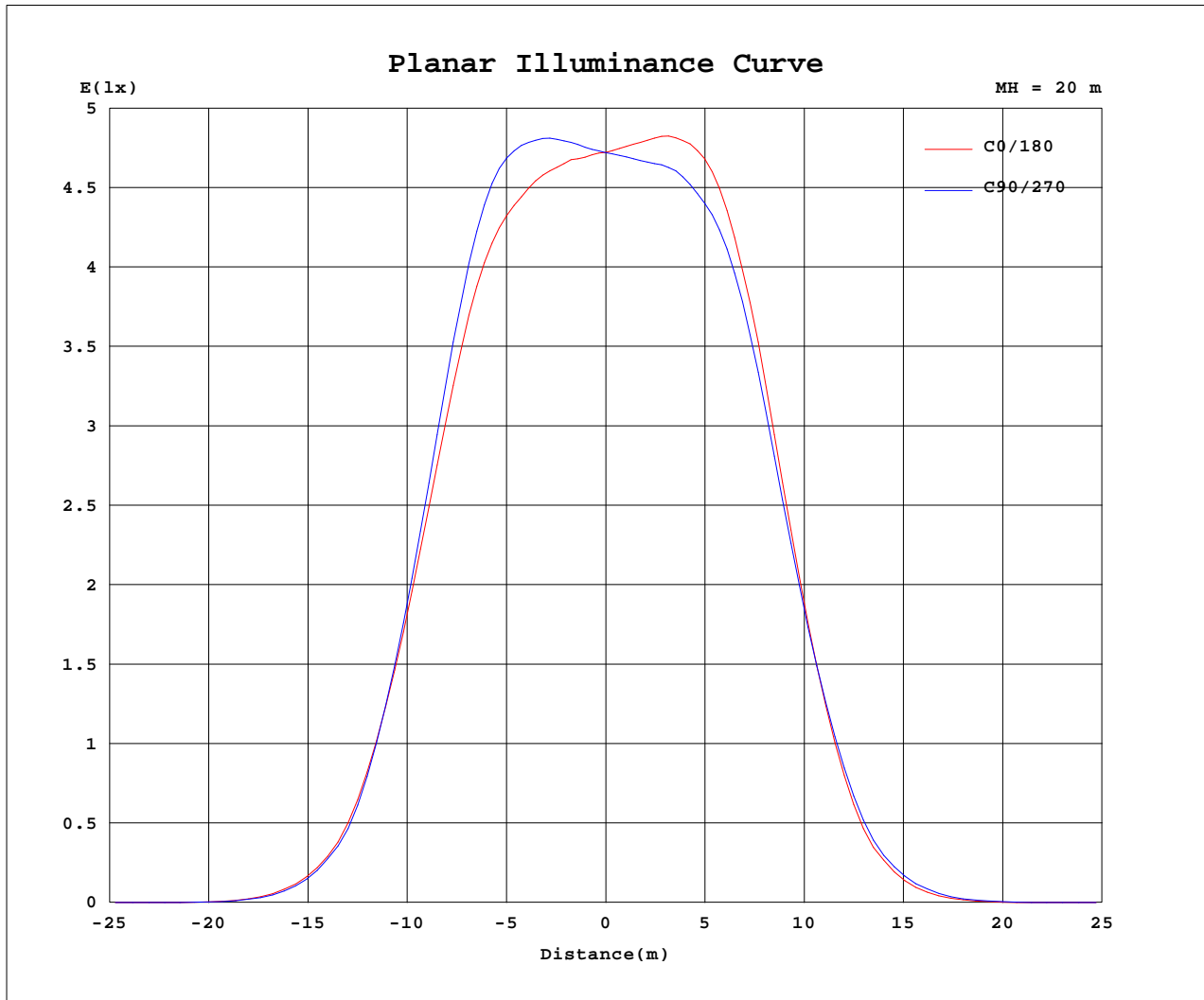
AvgL	cd/m2
L_0~180(65)av	47
L_0~180(75)av	27
L_0~180(85)av	62
L_90~270(65)av	23
L_90~270(75)av	20
L_90~270(85)av	46
L_45(65)av	36
L_45(75)av	16
L_45(85)av	32

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-26

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:BXRE-30G1000-A-83 Ra:90
LENS;PM-1083C 50R
DRIVER: PUP20A-1WMC 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: 2024-7-26

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: BXRE-30G1000-A-83 Ra:90
 LENS: PM-1083C 50R
 DRIVER: PUP20A-1WMC 500mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.1753A P:20.934W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260950
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1888	1888	1888	1888	1888	1888	1888	1888	1888	1888	1888	1888						
5	1891	1902	1917	1936	1943	1939	1935	1921	1905	1890	1884	1886						
10	1902	1942	1965	2009	2040	2024	2015	1987	1945	1929	1919	1904						
15	1884	1936	1965	2051	2080	2047	2041	1986	1923	1922	1902	1875						
20	1681	1711	1760	1825	1869	1838	1819	1746	1717	1722	1683	1638						
25	1194	1221	1244	1257	1313	1306	1258	1215	1218	1215	1181	1160						
30	627	653	644	620	684	676	620	625	641	643	636	627						
35	213	240	217	202	234	237	195	208	229	218	235	223						
40	49.2	56.1	52.8	43.3	50.5	53.4	38.1	41.0	46.2	51.1	51.8	52.2						
45	5.52	12.4	9.64	4.35	11.0	11.5	3.96	9.68	9.93	7.08	10.9	9.92						
50	1.00	1.53	1.11	0.79	1.02	1.31	0.46	1.61	1.06	0.80	0.99	1.18						
55	0.52	0.51	0.53	0.43	0.33	0.30	0.24	0.30	0.42	0.48	0.42	0.45						
60	0.32	0.33	0.21	0.14	0.16	0.19	0.17	0.21	0.19	0.20	0.23	0.32						
65	0.12	0.13	0.05	0.07	0.09	0.13	0.14	0.11	0.06	0.06	0.05	0.14						
70	0.06	0.04	0.04	0.04	0.03	0.07	0.08	0.07	0.03	0.03	0.03	0.04						
75	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.02	0.03	0.03	0.03						
80	0.04	0.02	0.02	0.03	0.03	0.02	0.04	0.02	0.02	0.03	0.02	0.02						
85	0.04	0.03	0.02	0.03	0.02	0.02	0.03	0.02	0.01	0.02	0.01	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
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-26

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