

Luminaire Photograph



Light Output Ratio:	77.9%	
Luminaire Power:	27.5 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.90	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-11-4

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: BXRE-30G2000-C-83 Ra: 90
LENS: PM-1083C 50R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

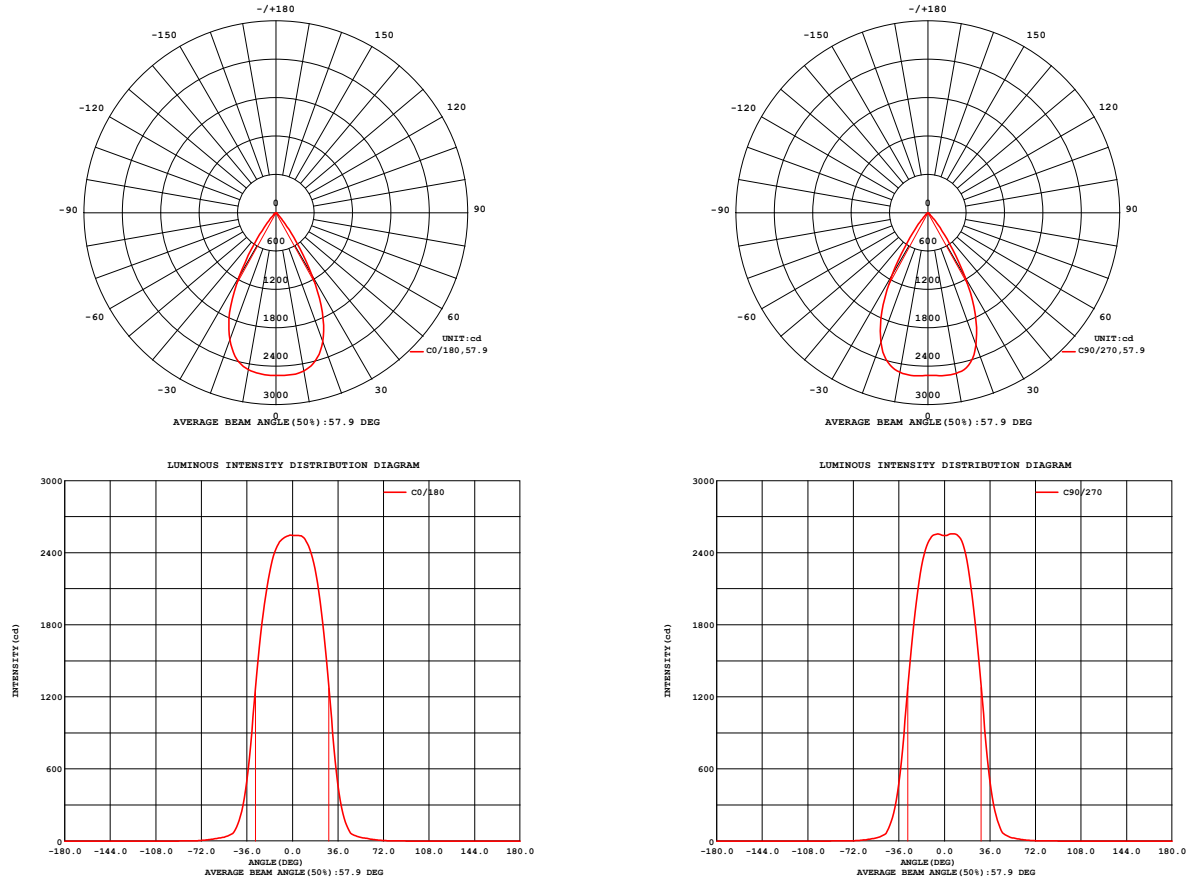


Fig. C0/C180

Fig. C90/C270

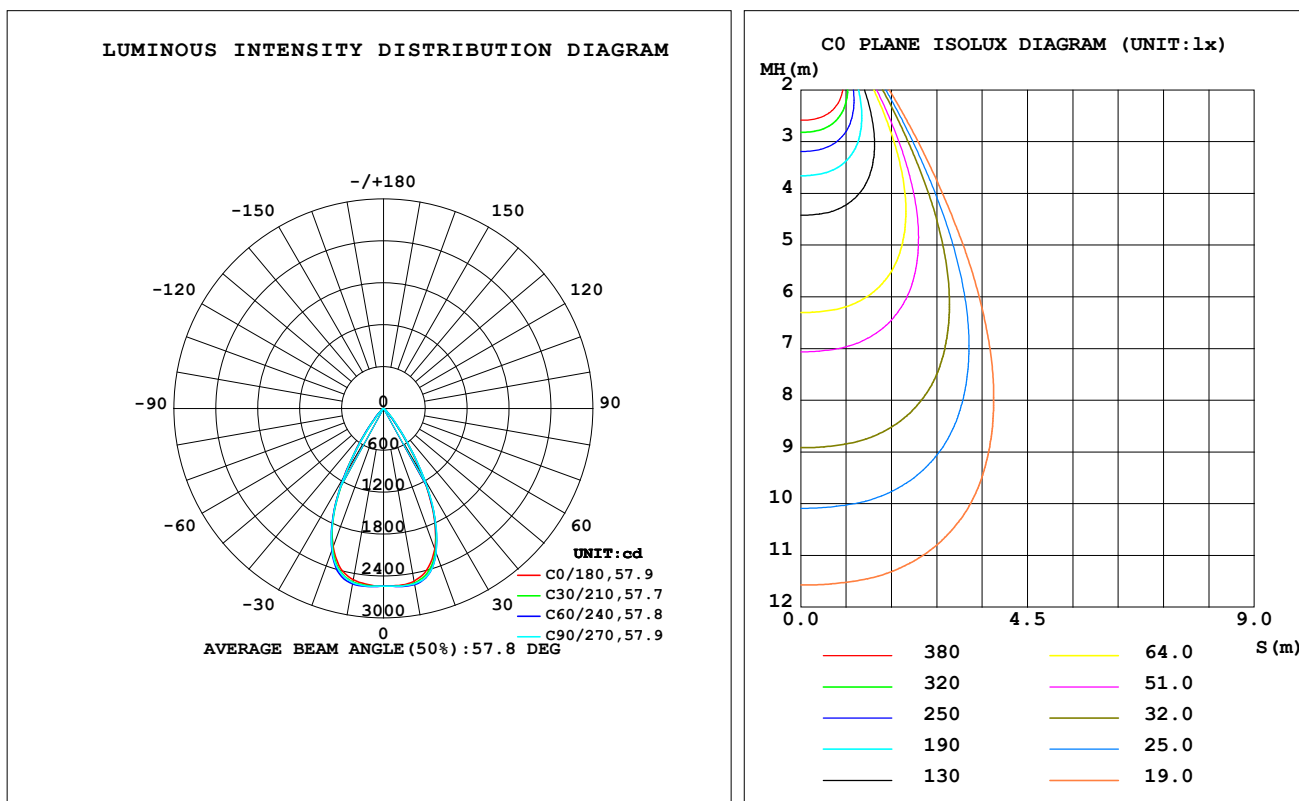
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.14V I:0.2307A P:27.497W PF:0.9907 Freq:59.98Hz Lamp Flux:2796.6x1 lm		
NAME: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041311
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.26 lm/W
MODEL	Bridgelux	I _{max} (cd)	2564	S/MH (C0/180)	0.86	
NOMINAL POWER (W)	27	LOR (%)	77.9	S/MH (C90/270)	0.85	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2179.4	η UP, DN (C0-180)	0.0, 39.3	
NOMINAL FLUX (lm)	2796.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 38.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	120	η down (%)	77.9	CIBSE SHR MAX	0.90	



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2512	2549	2550	2498	2489	2536	2532	2508	0- 10	242.4	242.4	11.1,8.67
20	2145	2185	2197	2132	2111	2149	2154	2129	10- 20	671.2	913.6	41.9,32.7
30	1138	1155	1178	1168	1153	1130	1124	1126	20- 30	770.1	1684	77.3,60.2
40	229.8	237.4	250.9	254.5	247.8	243.6	234.3	224.8	30- 40	377.8	2061	94.6,73.7
50	43.47	42.35	41.42	45.62	46.33	44.32	39.01	41.39	40- 50	80.51	2142	98.3,76.6
60	19.66	17.49	14.24	18.56	20.97	17.65	13.55	17.35	50- 60	24.88	2167	99.4,77.5
70	5.799	4.828	3.343	5.149	6.257	4.849	3.200	4.709	60- 70	10.14	2177	99.9,77.8
80	0.6770	0.4522	0.3216	0.4655	0.7406	0.4375	0.2748	0.4193	70- 80	2.201	2179	100,77.9
90	0	0	0	0	0	0	0	0	80- 90	0.1548	2179	100,77.9
100	0	0	0	0	0	0	0	0	90-100	0	2179	100,77.9
110	0	0	0	0	0	0	0	0	100-110	0	2179	100,77.9
120	0	0	0	0	0	0	0	0	110-120	0	2179	100,77.9
130	0	0	0	0	0	0	0	0	120-130	0	2179	100,77.9
140	0	0	0	0	0	0	0	0	130-140	0	2179	100,77.9
150	0	0	0	0	0	0	0	0	140-150	0	2179	100,77.9
160	0	0	0	0	0	0	0	0	150-160	0	2179	100,77.9
170	0	0	0	0	0	0	0	0	160-170	0	2179	100,77.9
180	0	0	0	0	0	0	0	0	170-180	0	2179	100,77.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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Humidity:65.0%
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LENS:PM-1083C 50R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.14V I:0.2307A P:27.497W PF:0.9907 Freq:59.98Hz
Lamp Flux:2796.6x1 lm

NAME: 2318.223-ACOT-84-AM

TYPE:

WEIGHT:

SPEC.: 3000K

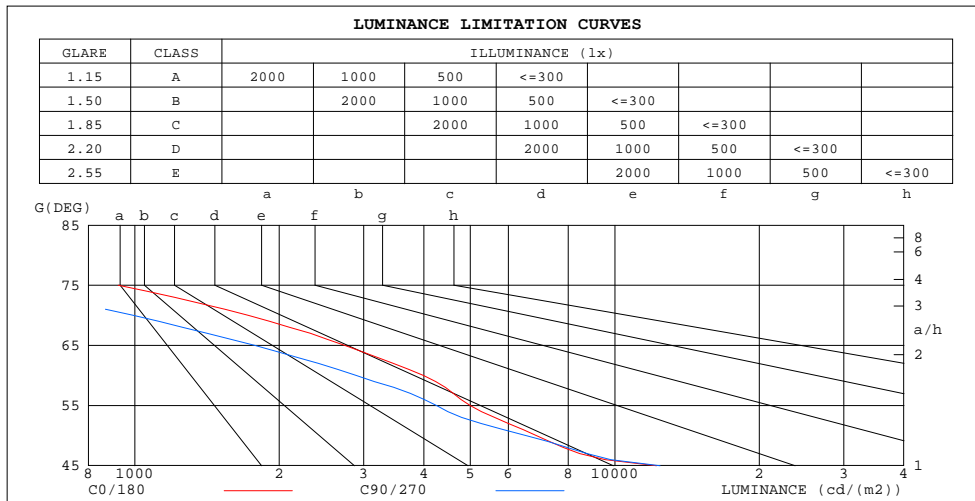
DIM.:

SERIAL No.: 2311041311

MFR.: RISE

SUR.: 0.00984704m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	168	125
80	396	188
75	923	471
70	1722	993
65	2738	1780
60	3994	2893
55	4997	4256
50	6870	6542
45	12209	12427

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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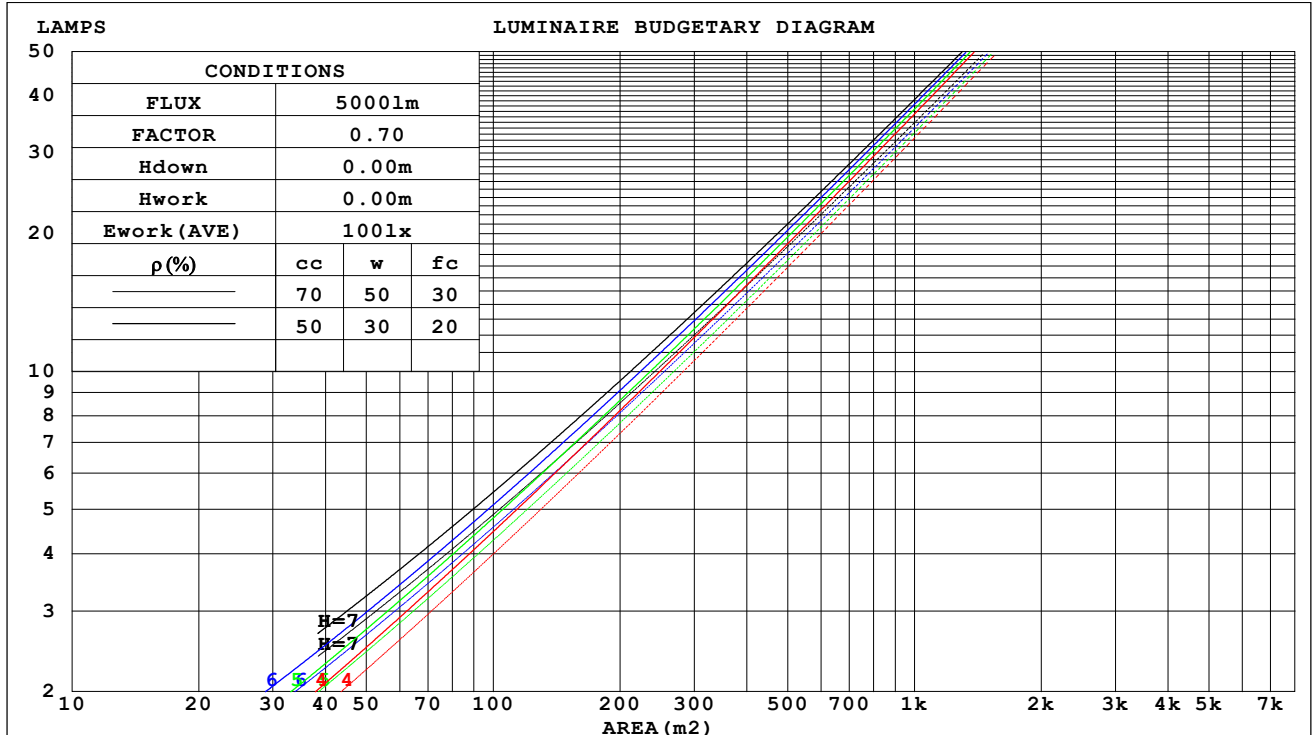
SERIAL No.: 2311041311

MFR.: RISE

SUR.: 0.00984704m2

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: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041311
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.135	.077	.024	.130	.074	.024	.120	.069	.022	.111	.064	.021	.103	.059	.019	
2.0	.129	.071	.022	.125	.069	.021	.116	.065	.020	.109	.061	.019	.102	.058	.018	
3.0	.123	.065	.020	.119	.064	.019	.112	.061	.018	.106	.058	.018	.100	.055	.017	
4.0	.117	.061	.018	.114	.060	.018	.108	.057	.017	.102	.055	.017	.097	.053	.016	
5.0	.112	.057	.016	.109	.056	.016	.103	.054	.016	.099	.052	.015	.094	.050	.015	
6.0	.106	.053	.015	.104	.053	.015	.099	.051	.015	.095	.049	.015	.091	.048	.014	
7.0	.102	.050	.014	.100	.050	.014	.096	.048	.014	.092	.047	.014	.088	.046	.013	
8.0	.098	.048	.013	.096	.047	.013	.092	.046	.013	.089	.045	.013	.085	.044	.013	
9.0	.094	.045	.013	.092	.045	.013	.089	.044	.012	.086	.043	.012	.083	.042	.012	
10.0	.090	.043	.012	.088	.043	.012	.085	.042	.012	.083	.041	.012	.080	.040	.012	

pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.148	.148	.148	.127	.127	.127	.087	.087	.087	.050	.050	.050	.016	.016	.016		
1.0	.133	.123	.113	.114	.105	.097	.078	.072	.067	.045	.042	.039	.014	.013	.013		
2.0	.121	.103	.088	.104	.089	.076	.071	.062	.053	.041	.036	.031	.013	.012	.010		
3.0	.111	.088	.070	.095	.076	.061	.066	.053	.043	.038	.031	.025	.012	.010	.008		
4.0	.103	.077	.057	.089	.067	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007		
5.0	.096	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006		
6.0	.091	.061	.039	.078	.052	.034	.054	.037	.024	.031	.022	.014	.010	.007	.005		
7.0	.085	.055	.033	.074	.047	.029	.051	.033	.020	.030	.020	.012	.010	.006	.004		
8.0	.081	.050	.028	.070	.043	.025	.048	.030	.018	.028	.018	.010	.009	.006	.003		
9.0	.077	.046	.025	.066	.040	.021	.046	.028	.015	.027	.016	.009	.009	.005	.003		
10.0	.074	.042	.022	.063	.037	.019	.044	.026	.013	.026	.015	.008	.008	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2311041311		
MFR.: RISE					SUR.: 0.00984704m2			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	14.2	15.1	14.4	15.3	15.5	14.4	15.3	14.6	15.4	15.6
3H	14.1	14.9	14.3	15.1	15.3	14.2	15.0	14.5	15.2	15.4
4H	14.0	14.8	14.3	15.0	15.2	14.1	14.9	14.4	15.1	15.4
6H	13.9	14.7	14.2	14.9	15.1	14.0	14.8	14.3	15.0	15.3
8H	13.9	14.6	14.2	14.8	15.1	14.0	14.7	14.3	15.0	15.2
12H	13.8	14.5	14.1	14.8	15.0	13.9	14.6	14.3	14.9	15.2
4H 2H	14.0	14.8	14.3	15.0	15.2	14.1	14.9	14.4	15.2	15.4
3H	13.9	14.5	14.2	14.8	15.1	14.0	14.7	14.3	14.9	15.2
4H	13.8	14.4	14.1	14.7	15.0	13.9	14.5	14.2	14.8	15.1
6H	13.7	14.2	14.1	14.6	14.9	13.8	14.3	14.2	14.7	15.0
8H	13.6	14.1	14.0	14.5	14.9	13.7	14.2	14.1	14.6	15.0
12H	13.6	14.0	14.0	14.4	14.8	13.7	14.2	14.1	14.5	14.9
8H 4H	13.6	14.1	14.0	14.5	14.9	13.7	14.3	14.1	14.6	15.0
6H	13.5	13.9	14.0	14.3	14.8	13.6	14.1	14.1	14.5	14.9
8H	13.5	13.8	13.9	14.3	14.7	13.6	14.0	14.0	14.4	14.8
12H	13.4	13.7	13.9	14.2	14.6	13.5	13.8	14.0	14.3	14.8
12H 4H	13.6	14.0	14.0	14.4	14.8	13.7	14.2	14.1	14.5	14.9
6H	13.5	13.8	13.9	14.3	14.7	13.6	14.0	14.0	14.4	14.8
8H	13.4	13.7	13.9	14.2	14.6	13.5	13.8	14.0	14.3	14.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.5 / - 7.3					+ 3.7 / - 9.1				
1.5H	+ 5.8 / - 5.8					+ 6.1 / - 6.9				
2.0H	+ 4.2 / - 2.7					+ 5.0 / - 4.0				

CIE Pub.117, 2797 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.6)
Area: 0.00984704 m2

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UTILIZATION FACTORS TABLE

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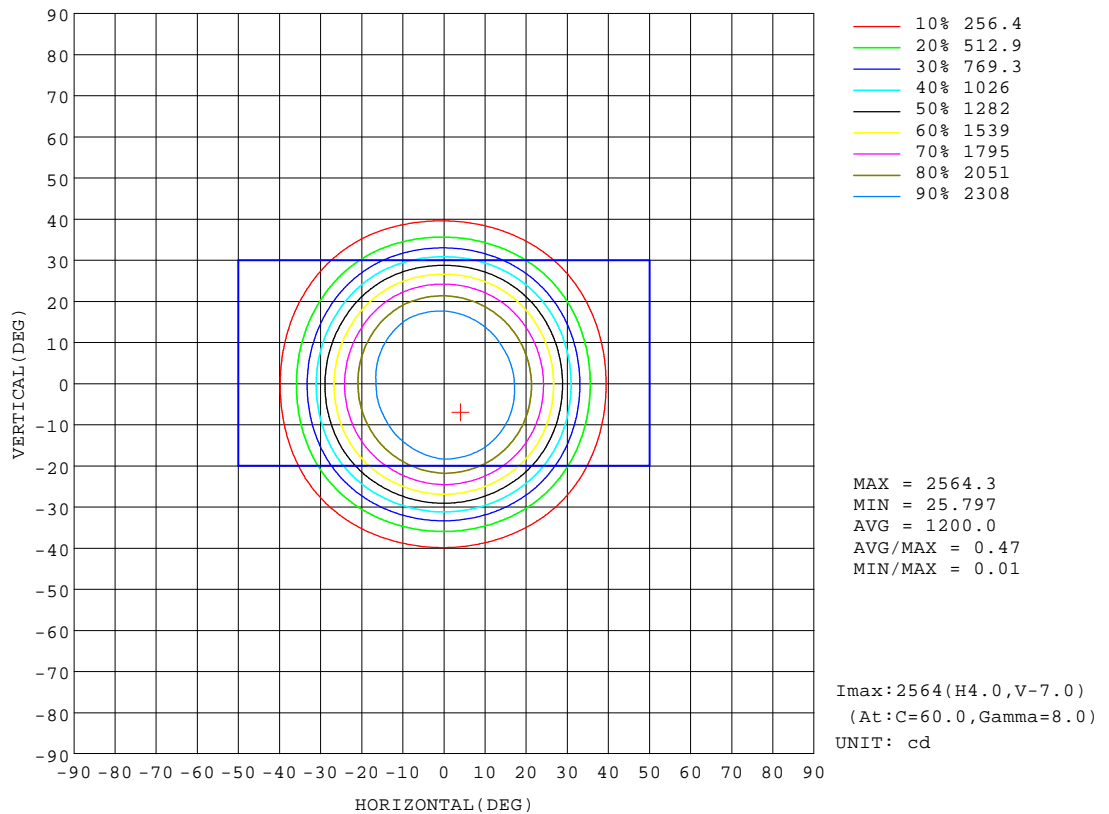
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	64	61	68	64	61	68	63	61	58
0.80	74	70	67	74	70	67	73	69	67	64
1.00	78	74	71	77	73	71	76	73	70	67
1.25	81	77	74	80	76	74	79	76	73	70
1.50	83	79	77	82	79	76	80	78	76	72
2.00	85	82	79	84	81	79	82	79	78	74
2.50	86	83	81	85	82	80	83	80	79	74
3.00	87	85	83	86	84	82	83	82	80	75
4.00	89	87	85	87	85	84	84	83	82	76
5.00	90	88	87	88	87	85	85	84	83	77
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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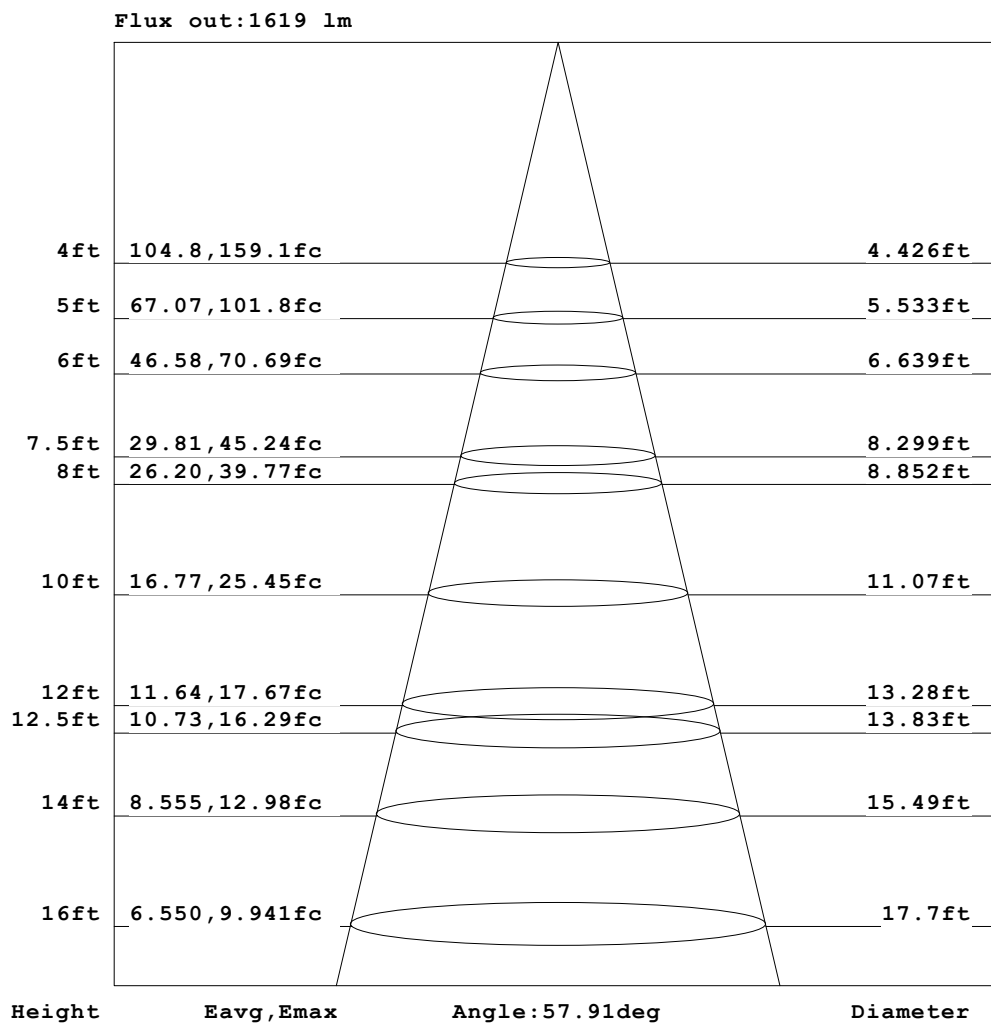


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AAI Figure

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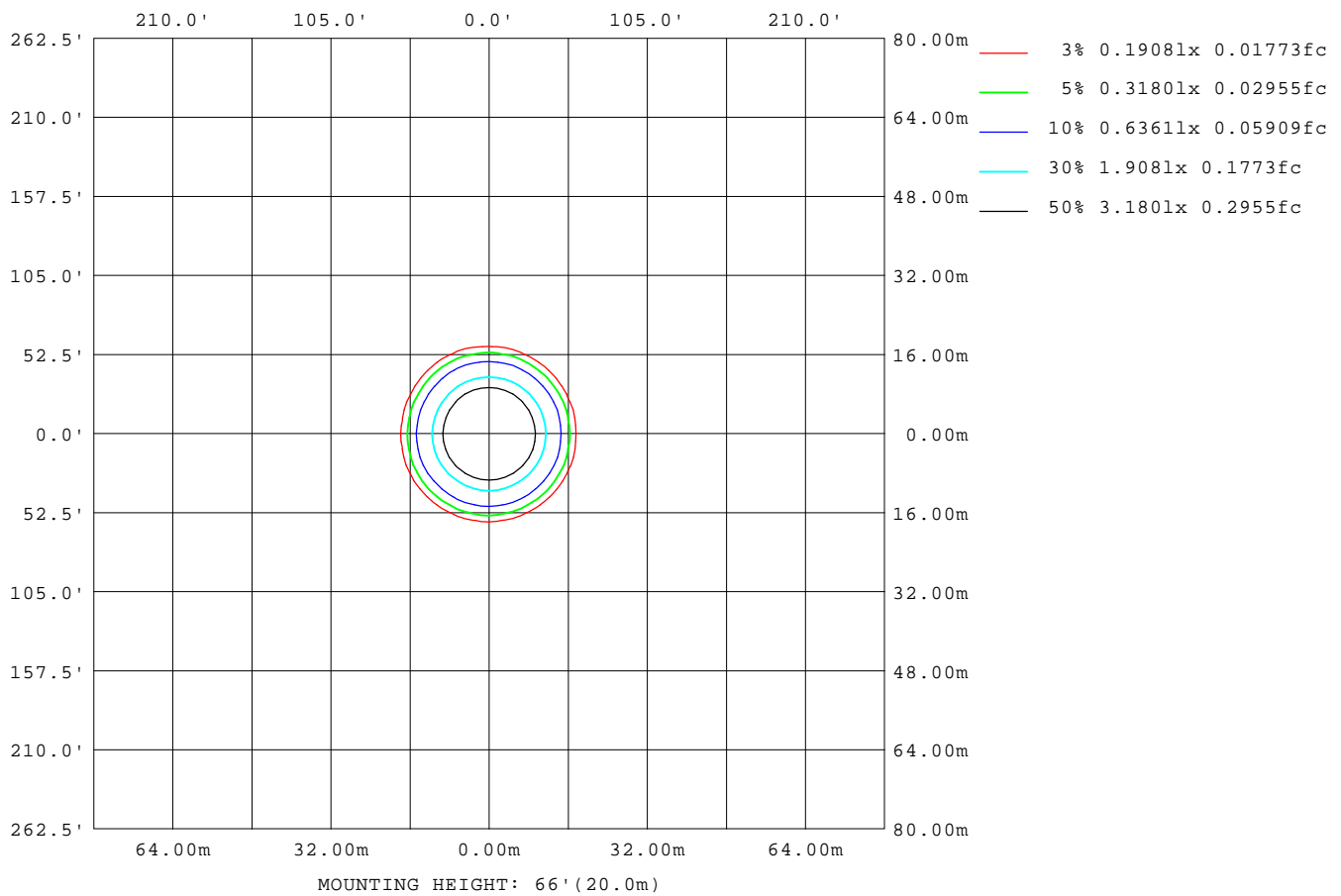
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2311041311
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:zoe
Test Date:2023-11-4

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:BXRE-30G2000-C-83 Ra:90
LENS:PM-1083C 50R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LED Avg.L Report

Test:U:120.14V I:0.2307A P:27.497W PF:0.9907 Freq:59.98Hz Lamp Flux:2796.6x1 lm		
NAME: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041311
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:

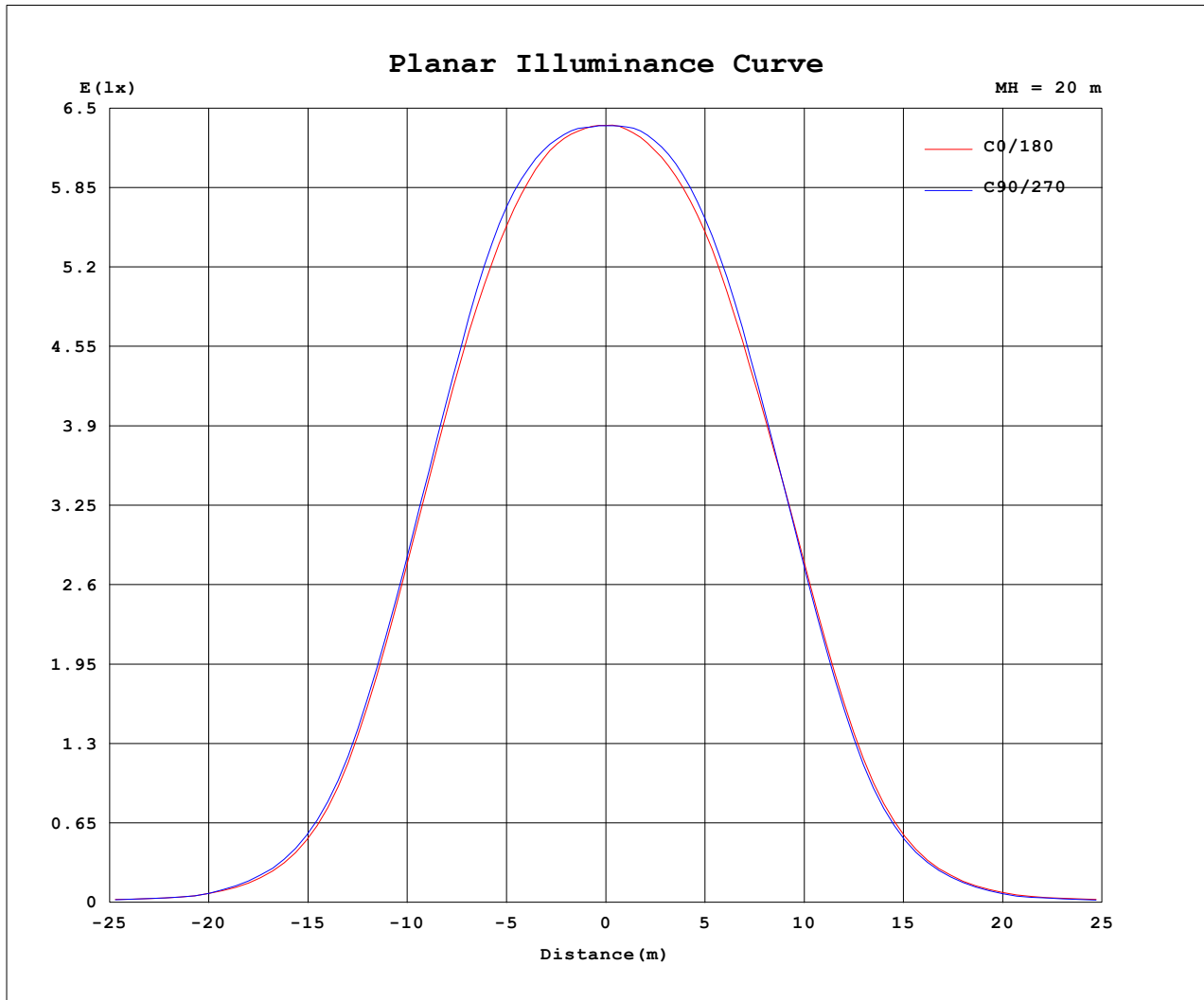
AvgL	cd/m2
L_0~180 (65) av	2837
L_0~180 (75) av	969
L_0~180 (85) av	166
L_90~270 (65) av	1747
L_90~270 (75) av	450
L_90~270 (85) av	119
L_45 (65) av	2420
L_45 (75) av	715
L_45 (85) av	81

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-4

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:BXRE-30G2000-C-83 Ra:90
LENS:PM-1083C 50R
DRIVER: PUP40A-1WMC-850 700mA
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: 2023-11-4

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: BXRE-30G2000-C-83 Ra: 90
 LENS: PM-1083C 50R
 DRIVER: PUP40A-1WMC-850 700mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.14V I:0.2307A P:27.497W PF:0.9907 Freq:59.98Hz Lamp Flux:2796.6x1 lm		
NAME: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041311
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2543	2543	2543	2543	2543	2543	2543	2543	2543	2543	2543	2543						
5	2543	2551	2558	2555	2539	2529	2533	2546	2557	2555	2546	2541						
10	2512	2539	2560	2550	2511	2485	2489	2521	2551	2532	2513	2503						
15	2394	2434	2468	2466	2412	2377	2372	2408	2451	2422	2393	2377						
20	2145	2174	2197	2197	2146	2118	2111	2132	2166	2154	2132	2125						
25	1716	1739	1741	1755	1728	1726	1717	1697	1722	1709	1708	1698						
30	1138	1154	1155	1178	1165	1171	1153	1121	1138	1124	1127	1125						
35	565	574	587	601	599	609	591	568	580	563	551	555						
40	230	235	240	251	252	257	248	240	247	234	227	223						
45	85.0	84.3	85.2	86.5	91.8	97.7	94.9	92.3	88.7	83.5	79.8	81.3						
50	43.5	43.3	41.3	41.4	43.9	47.4	46.3	46.2	42.5	39.0	40.6	42.2						
55	28.2	28.4	25.2	24.0	25.8	29.5	29.4	28.8	25.3	23.3	25.0	27.9						
60	19.7	19.5	15.5	14.2	16.3	20.9	21.0	20.0	15.3	13.5	15.4	19.3						
65	11.4	11.4	8.37	7.41	8.90	12.2	12.2	11.6	8.25	7.13	8.35	11.1						
70	5.80	5.79	3.86	3.34	4.13	6.16	6.26	5.90	3.80	3.20	3.84	5.58						
75	2.35	2.26	1.36	1.20	1.40	2.42	2.59	2.31	1.33	1.09	1.34	2.15						
80	0.68	0.56	0.34	0.32	0.35	0.58	0.74	0.57	0.31	0.27	0.31	0.53						
85	0.14	0.10	0.10	0.11	0.05	0.06	0.14	0.08	0.07	0.10	0.07	0.08						
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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