

Luminaire Photograph



Light Output Ratio:	86.5%	
Luminaire Power:	13.75 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-18

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: BXRH-30G10T0-G-83 Ra:90
LENS: PM-1084 15R
DRIVER: PUP20A-1WMC 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

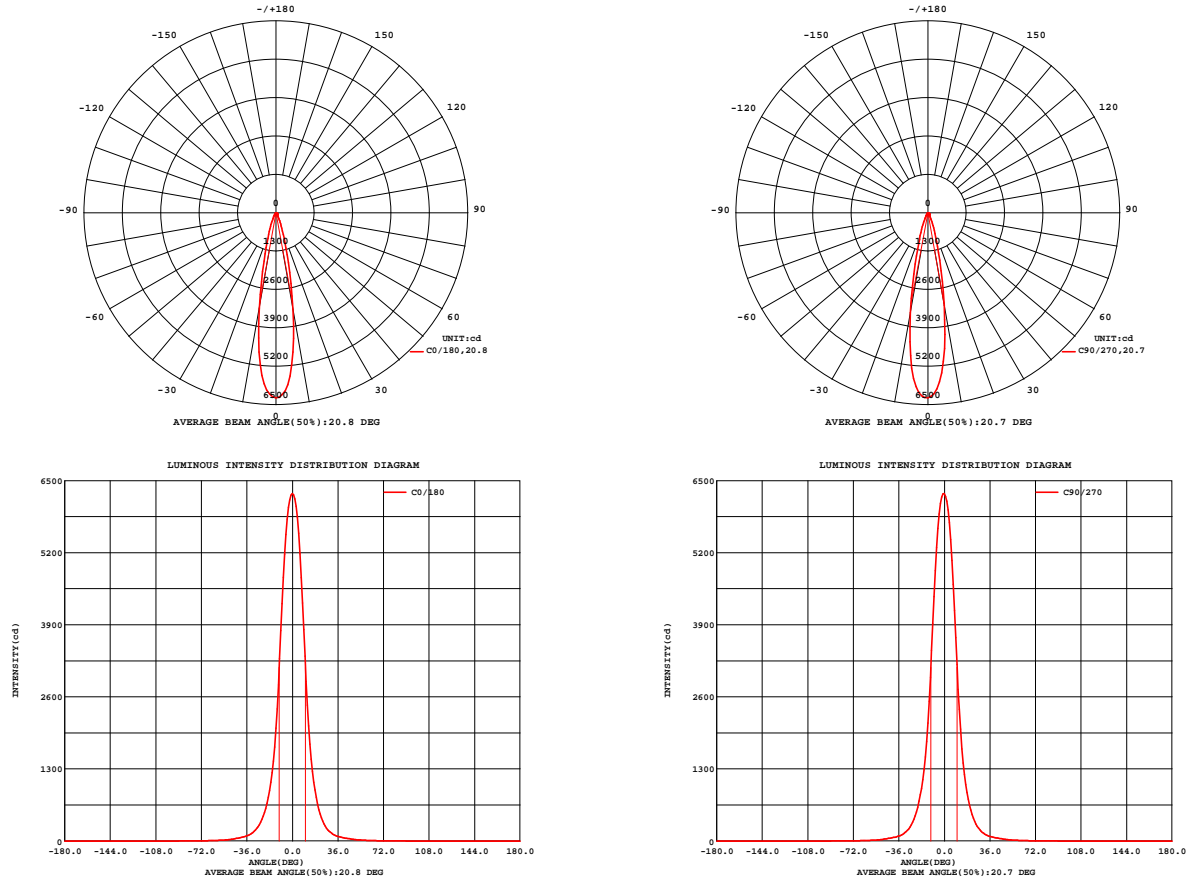


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

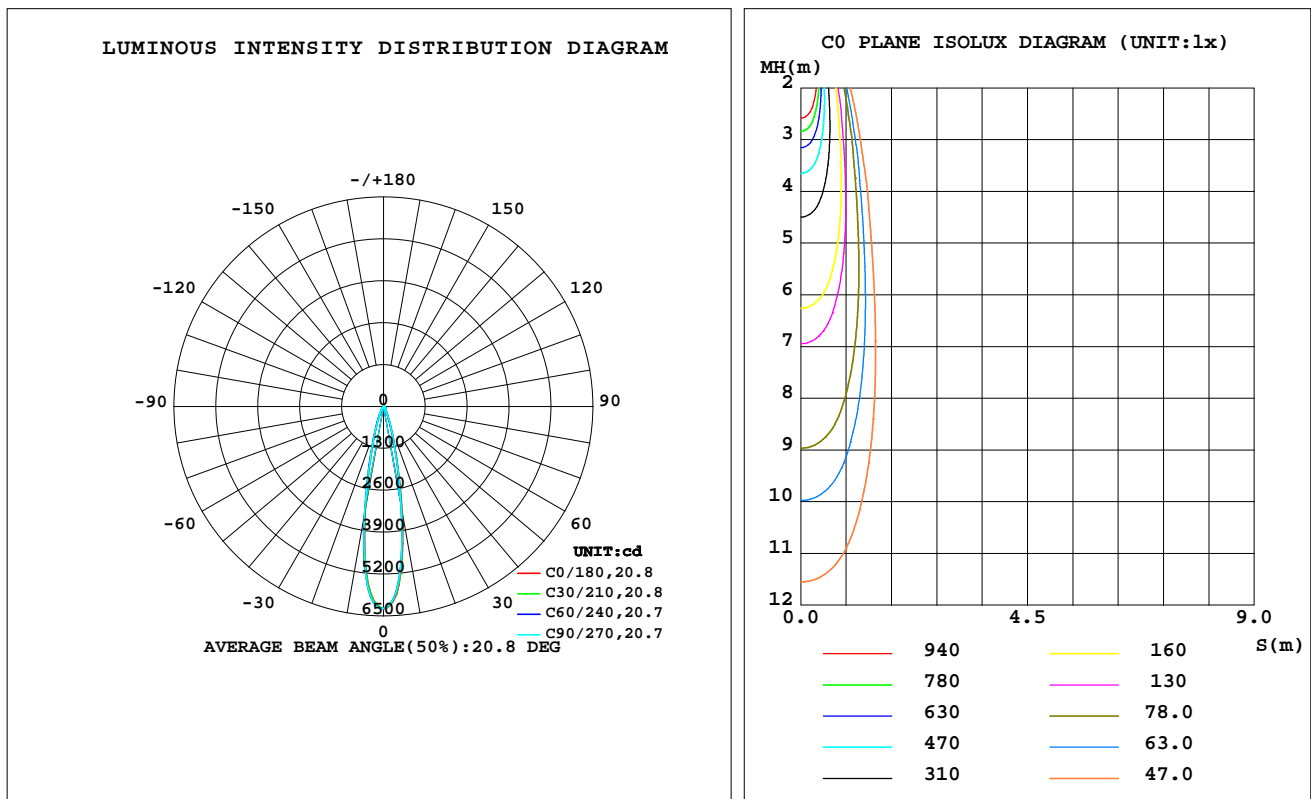
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.1155A P:13.752W PF:0.9906 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180439
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.46 lm/W			
MODEL	Brideglux	I _{max} (cd)	6265	S/MH(C0/180)	0.35
NOMINAL POWER(W)	13	LOR(%)	86.5	S/MH(C90/270)	0.36
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1161.4	UP,DN(C0-180)	0.0,42.2
NOMINAL FLUX(lm)	1342.44	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,44.3
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	down(%)	86.5	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	3333	3243	3186	3185	3295	3389	3436	3437	0- 10	454.0	454.0	39.1,33.8
20	659.9	652.0	644.8	640.5	679.2	704.1	718.7	688.9	10- 20	429.4	883.4	76.1,65.8
30	156.8	152.2	155.4	164.3	174.1	172.7	169.6	166.3	20- 30	156.9	1040	89.6,77.5
40	60.28	59.12	60.39	63.36	65.89	65.65	64.09	62.68	30- 40	62.56	1103	95,82.2
50	24.64	24.72	24.38	23.80	24.10	24.73	24.51	24.63	40- 50	32.25	1135	97.7,84.6
60	10.04	10.20	9.908	9.562	9.945	10.25	10.05	9.781	50- 60	14.31	1149	99,85.6
70	4.598	4.637	3.901	4.734	4.740	4.730	4.681	4.616	60- 70	6.710	1156	99.5,86.1
80	2.679	2.686	2.606	2.782	2.827	2.810	2.784	2.705	70- 80	3.793	1160	99.9,86.4
90	0	0	0	0	0	0	0	0	80- 90	1.489	1161	100,86.5
100	0	0	0	0	0	0	0	0	90-100	0	1161	100,86.5
110	0	0	0	0	0	0	0	0	100-110	0	1161	100,86.5
120	0	0	0	0	0	0	0	0	110-120	0	1161	100,86.5
130	0	0	0	0	0	0	0	0	120-130	0	1161	100,86.5
140	0	0	0	0	0	0	0	0	130-140	0	1161	100,86.5
150	0	0	0	0	0	0	0	0	140-150	0	1161	100,86.5
160	0	0	0	0	0	0	0	0	150-160	0	1161	100,86.5
170	0	0	0	0	0	0	0	0	160-170	0	1161	100,86.5
180	0	0	0	0	0	0	0	0	170-180	0	1161	100,86.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.1155A P:13.752W PF:0.9906 Freq:59.98Hz
Lamp Flux:1342.44x1 lm

NAME: 2218.510-LEA-28-H0

TYPE:

WEIGHT:

SPEC.: 3000K

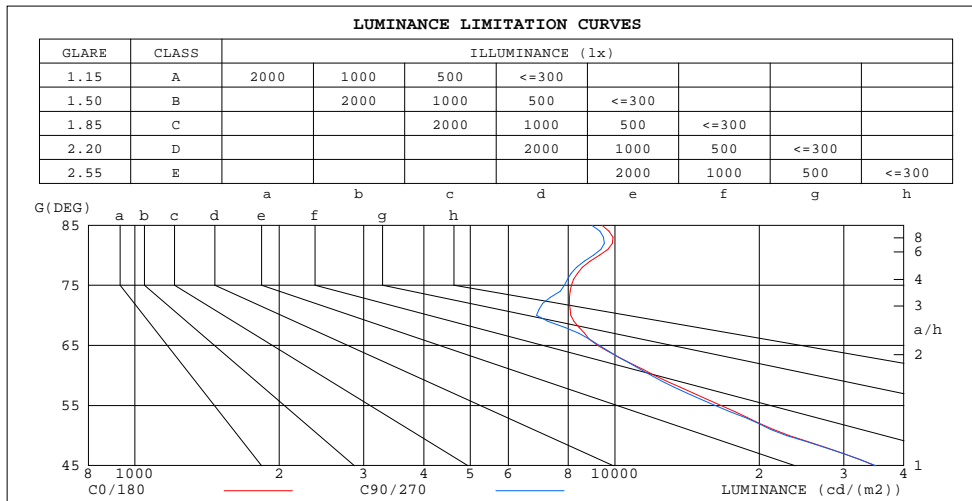
DIM.:

SERIAL No.: 2507180439

MFR.: RISE

SUR.: 0.00166106m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	9409	8965
80	9296	9033
75	8121	7849
70	8100	6866
65	9204	9281
60	12102	11929
55	16652	16206
50	23100	22832
45	34851	34969

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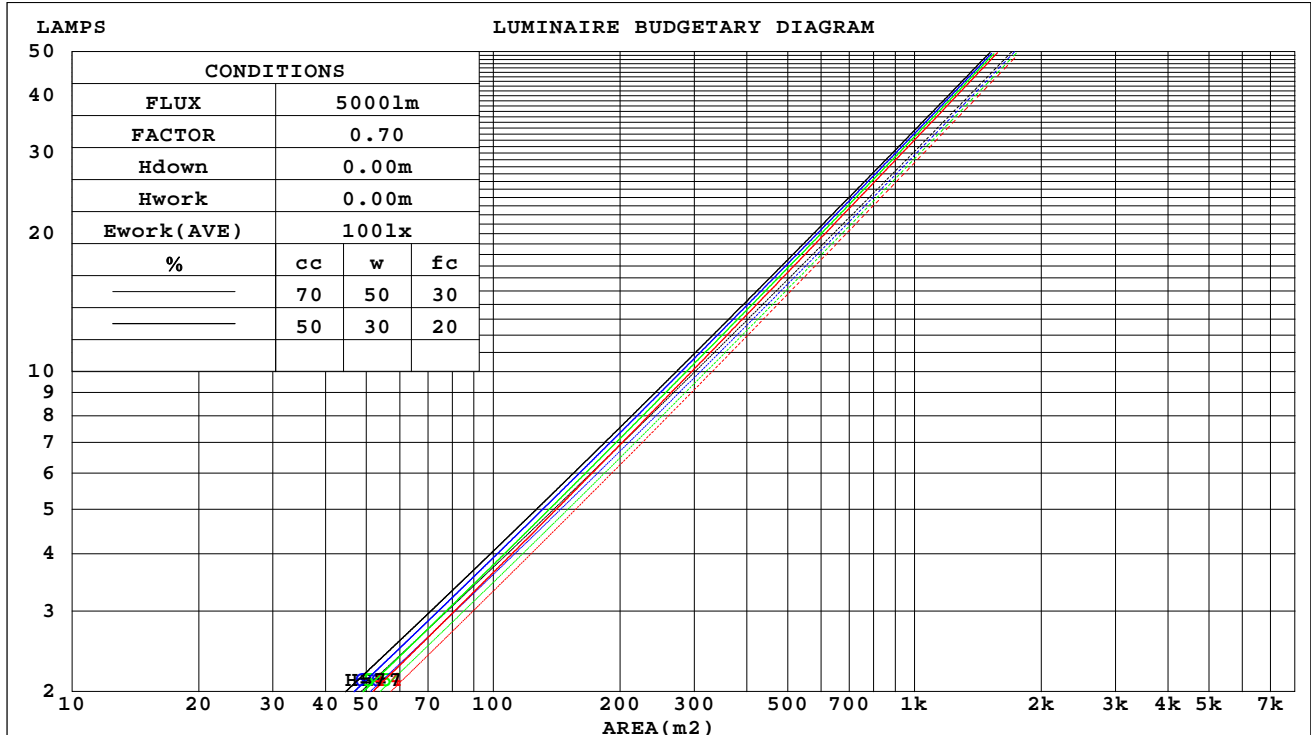
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507180439
MFR.: RISE	SUR.: 0.00166106m2	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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NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180439
MFR.: RISE	SUR.: 0.00166106m2	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	.124	.071	.022	.118	.068	.021	.108	.062	.020	.098	.056	.018	.089	.051	.017	
2.0	.115	.063	.019	.111	.061	.019	.102	.057	.018	.094	.052	.016	.086	.049	.015	
3.0	.107	.057	.017	.103	.055	.017	.096	.052	.016	.089	.049	.015	.083	.046	.014	
4.0	.100	.052	.015	.097	.051	.015	.091	.048	.014	.085	.046	.014	.080	.043	.013	
5.0	.094	.048	.014	.092	.047	.014	.086	.045	.013	.081	.043	.013	.076	.041	.012	
6.0	.089	.045	.013	.087	.044	.013	.082	.042	.012	.078	.040	.012	.074	.039	.012	
7.0	.084	.042	.012	.082	.041	.012	.078	.039	.011	.074	.038	.011	.071	.037	.011	
8.0	.080	.039	.011	.078	.038	.011	.075	.037	.011	.071	.036	.010	.068	.035	.010	
9.0	.076	.037	.010	.075	.036	.010	.071	.035	.010	.069	.034	.010	.066	.033	.010	
10.0	.073	.035	.010	.071	.034	.010	.069	.034	.009	.066	.033	.009	.064	.032	.009	

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	.165	.165	.165	.141	.141	.141	.096	.096	.096	.055	.055	.055	.018	.018	.018		
1.0	.146	.136	.128	.125	.117	.110	.085	.081	.076	.049	.047	.044	.016	.015	.014		
2.0	.131	.115	.101	.112	.099	.088	.077	.068	.061	.044	.040	.036	.014	.013	.012		
3.0	.118	.098	.082	.101	.085	.071	.069	.059	.050	.040	.034	.029	.013	.011	.010		
4.0	.107	.085	.068	.092	.073	.059	.063	.051	.041	.037	.030	.024	.012	.010	.008		
5.0	.098	.074	.056	.084	.064	.049	.058	.045	.035	.034	.026	.021	.011	.009	.007		
6.0	.091	.066	.048	.078	.057	.042	.054	.040	.029	.031	.023	.017	.010	.008	.006		
7.0	.084	.059	.041	.072	.051	.035	.050	.036	.025	.029	.021	.015	.009	.007	.005		
8.0	.078	.053	.035	.067	.046	.031	.047	.032	.022	.027	.019	.013	.009	.006	.004		
9.0	.073	.048	.031	.063	.042	.027	.044	.029	.019	.026	.017	.011	.008	.006	.004		
10.0	.069	.044	.027	.059	.038	.023	.041	.027	.017	.024	.016	.010	.008	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2507180439		
MFR.: RISE					SUR.: 0.00166106m2			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	15.2	15.8	15.4	16.0	16.1	15.1	15.8	15.3	15.9	16.1
3H	15.4	16.0	15.6	16.2	16.4	15.3	15.9	15.5	16.1	16.3
4H	15.5	16.1	15.7	16.3	16.5	15.4	16.0	15.6	16.2	16.4
6H	15.6	16.2	15.9	16.4	16.7	15.5	16.1	15.8	16.3	16.5
8H	15.7	16.3	16.0	16.5	16.8	15.6	16.1	15.9	16.4	16.6
12H	15.8	16.3	16.1	16.6	16.8	15.6	16.2	16.0	16.4	16.7
4H 2H	15.2	15.8	15.4	16.0	16.2	15.1	15.7	15.4	15.9	16.1
3H	15.5	16.0	15.8	16.3	16.5	15.4	15.9	15.7	16.2	16.4
4H	15.7	16.2	16.0	16.5	16.8	15.6	16.1	15.9	16.3	16.6
6H	15.9	16.4	16.3	16.7	17.0	15.8	16.3	16.2	16.6	16.9
8H	16.1	16.5	16.5	16.8	17.2	16.0	16.4	16.4	16.7	17.1
12H	16.2	16.6	16.6	16.9	17.3	16.1	16.4	16.5	16.8	17.2
8H 4H	15.7	16.1	16.1	16.4	16.8	15.6	16.0	16.0	16.3	16.7
6H	16.1	16.4	16.5	16.8	17.2	16.0	16.3	16.4	16.7	17.1
8H	16.3	16.6	16.8	17.0	17.5	16.2	16.5	16.6	16.9	17.4
12H	16.5	16.8	17.0	17.2	17.7	16.4	16.6	16.8	17.1	17.5
12H 4H	15.7	16.0	16.1	16.4	16.8	15.6	15.9	16.0	16.3	16.7
6H	16.1	16.4	16.5	16.8	17.2	16.0	16.3	16.4	16.7	17.2
8H	16.4	16.6	16.8	17.1	17.5	16.3	16.5	16.7	17.0	17.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.0 / - 1.5					+ 1.0 / - 1.6				
1.5H	+ 1.6 / - 1.2					+ 1.7 / - 1.3				
2.0H	+ 2.4 / - 1.5					+ 2.4 / - 1.4				

CIE Pub.117, 1342 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
Area: 0.00166106 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.00166106m2	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	77	71	68	76	71	68	75	71	68	65
0.80	83	78	75	82	78	75	81	77	74	71
1.00	86	82	79	86	81	78	84	81	78	75
1.25	90	85	82	89	85	82	87	84	81	78
1.50	92	88	85	91	87	85	89	86	84	80
2.00	94	91	88	93	90	87	91	88	86	82
2.50	96	92	90	94	91	89	92	89	87	82
3.00	97	94	92	95	93	91	92	90	89	83
4.00	99	96	94	97	95	93	94	92	91	85
5.00	100	98	96	98	96	95	94	93	92	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

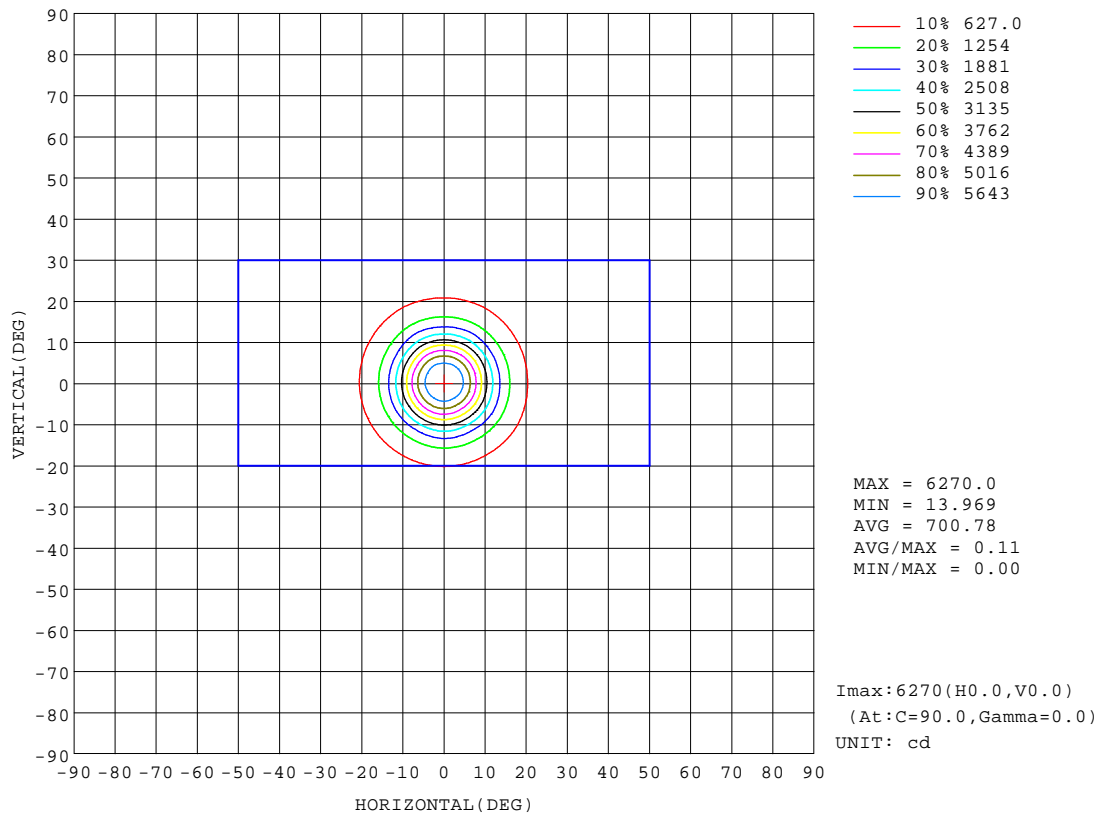
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ISOCANDELA DIAGRAM

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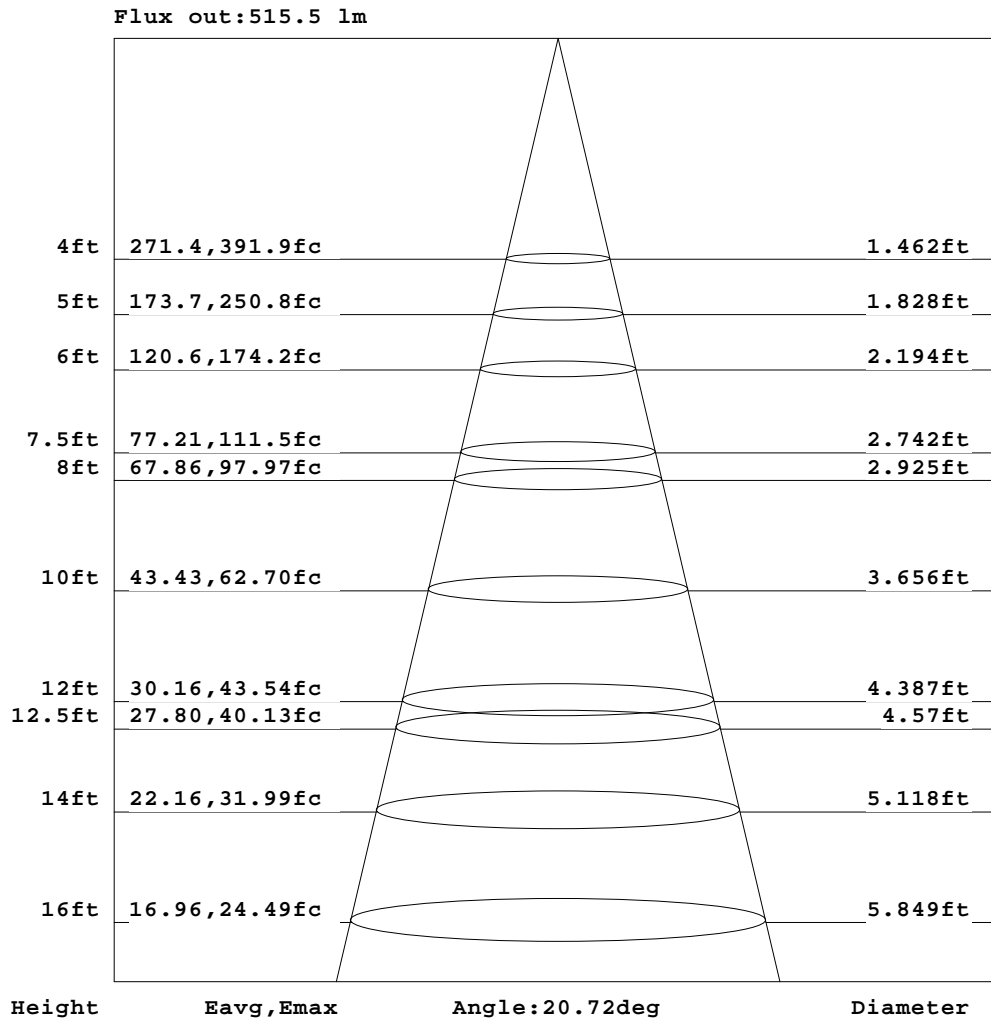


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AAI Figure

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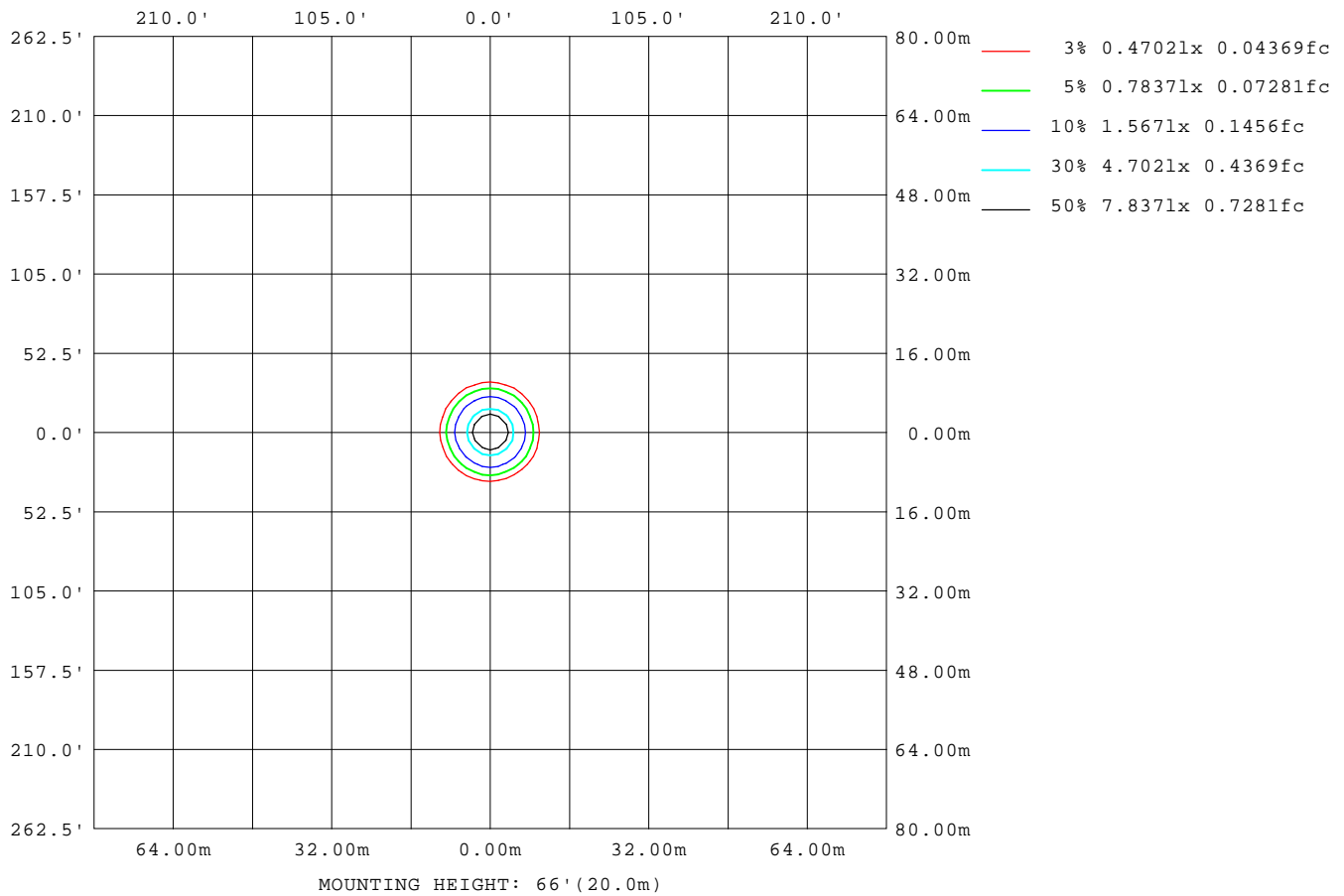
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90
LENS:PM-1084 15R
DRIVER:PUP20A-1WMC 600mA
30minutes warm-up

LED Avg.L Report

Test:U:120.07V I:0.1155A P:13.752W PF:0.9906 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180439
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

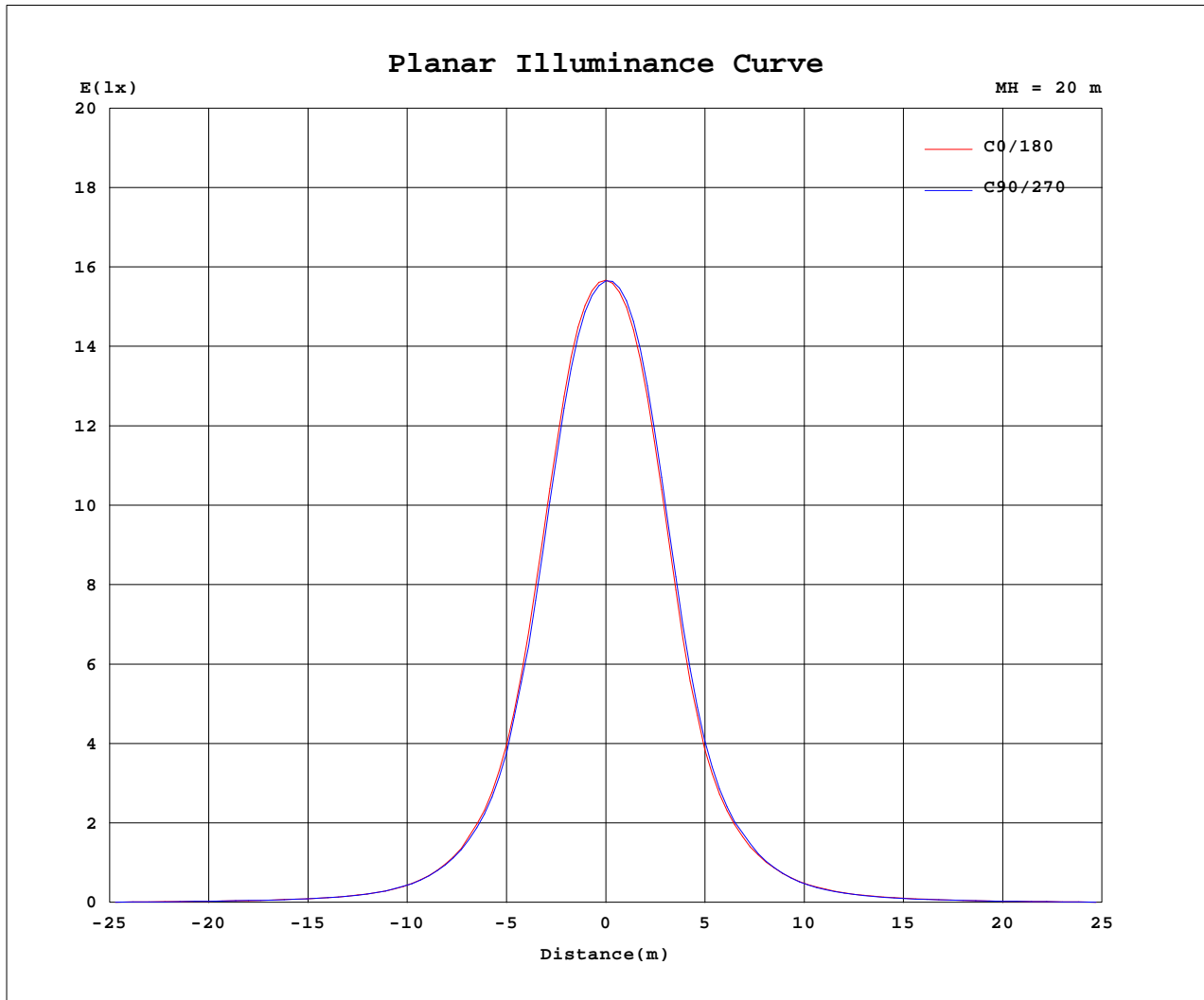
AvgL	cd/m2
L_0~180(65)av	9179
L_0~180(75)av	8299
L_0~180(85)av	9723
L_90~270(65)av	9325
L_90~270(75)av	8096
L_90~270(85)av	9499
L_45(65)av	9215
L_45(75)av	8323
L_45(85)av	9599

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

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:BXRH-30G10T0-G-83 Ra:90
LENS:PM-1084 15R
DRIVER:PUP20A-1WMC 600mA
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: 2025-7-18

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: BXRH-30G10T0-G-83 Ra: 90
 LENS: PM-1084 15R
 DRIVER: PUP20A-1WMC 600mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1155A P:13.752W PF:0.9906 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180439
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	6265	6265	6265	6265	6265	6265	6265	6265	6265	6265	6265	6265						
5	5549	5507	5420	5438	5439	5469	5526	5555	5643	5634	5645	5614						
10	3333	3300	3186	3186	3167	3204	3295	3328	3449	3436	3457	3416						
15	1477	1483	1401	1407	1367	1392	1438	1456	1535	1515	1539	1503						
20	660	669	634	645	634	647	679	691	717	719	704	674						
25	309	311	293	305	310	320	336	338	344	335	338	319						
30	157	156	149	155	161	168	174	172	173	170	171	162						
35	92.3	89.4	86.3	89.5	95.2	100	103	100	99.0	97.1	98.4	93.3						
40	60.3	59.8	58.4	60.4	62.0	64.7	65.9	65.8	65.5	64.1	63.8	61.6						
45	40.9	41.3	40.5	41.1	40.8	41.7	42.3	42.8	43.5	42.5	42.2	41.5						
50	24.6	25.1	24.4	24.4	23.7	23.9	24.1	24.4	25.1	24.5	24.7	24.6						
55	15.9	16.1	15.8	15.4	15.0	15.1	15.5	15.8	16.1	15.6	15.5	15.5						
60	10.0	10.3	10.1	9.91	9.45	9.67	9.95	10.1	10.4	10.1	9.66	9.90						
65	6.46	6.53	6.43	6.52	6.38	6.42	6.43	6.48	6.66	6.58	6.45	6.43						
70	4.60	4.63	4.64	3.90	4.72	4.75	4.74	4.72	4.74	4.68	4.64	4.59						
75	3.49	3.51	3.52	3.37	3.60	3.65	3.65	3.64	3.64	3.59	3.54	3.49						
80	2.68	2.68	2.69	2.61	2.75	2.81	2.83	2.81	2.81	2.78	2.73	2.68						
85	1.36	1.35	1.31	1.30	1.35	1.41	1.45	1.45	1.50	1.45	1.40	1.35						
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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