

Luminaire Photograph



Light Output Ratio:	61.7%	
Luminaire Power:	28.02 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-7-29

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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

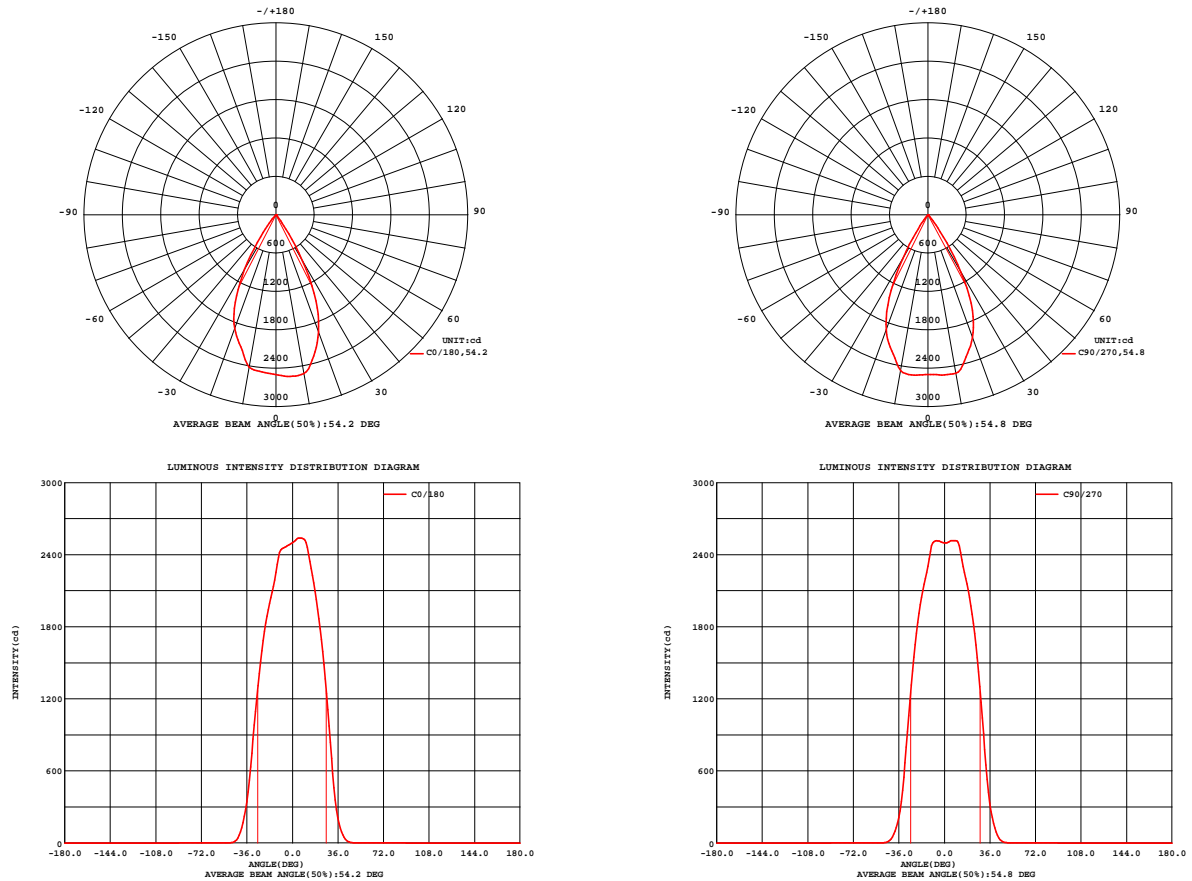


Fig. C0/C180

Fig. C90/C270

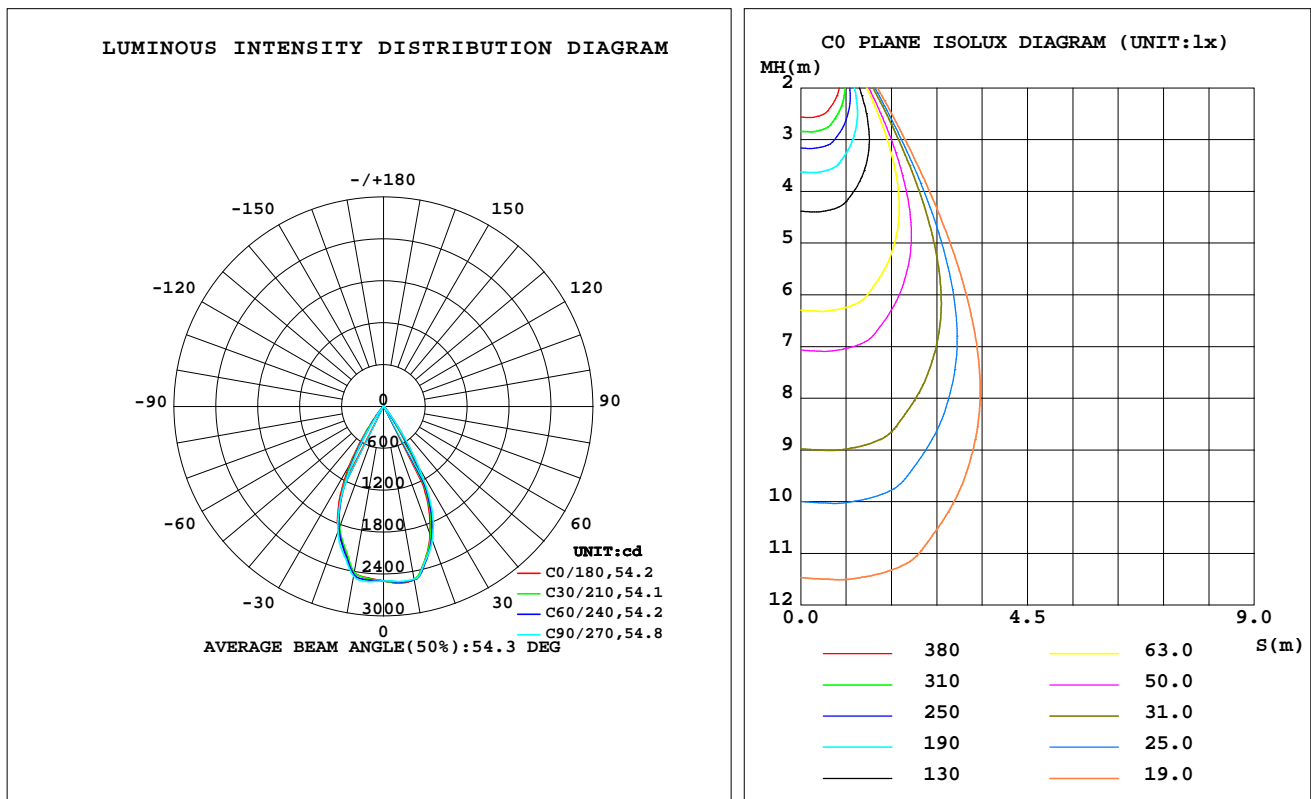
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-29

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
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DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.02V I:0.2355A P:28.023W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729962
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 64.25 lm/W
MODEL	Bridgelux	Imax(cd)	2542	S/MH(C0/180)	0.82	
NOMINAL POWER(W)	28	LOR(%)	61.7	S/MH(C90/270)	0.78	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1800.5	UP,DN(C0-180)	0.0,32.0	
NOMINAL FLUX(lm)	2916.19	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,29.7	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120	down(%)	61.7	CIBSE SHR MAX	0.85	



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ZONAL FLUX DIAGRAM

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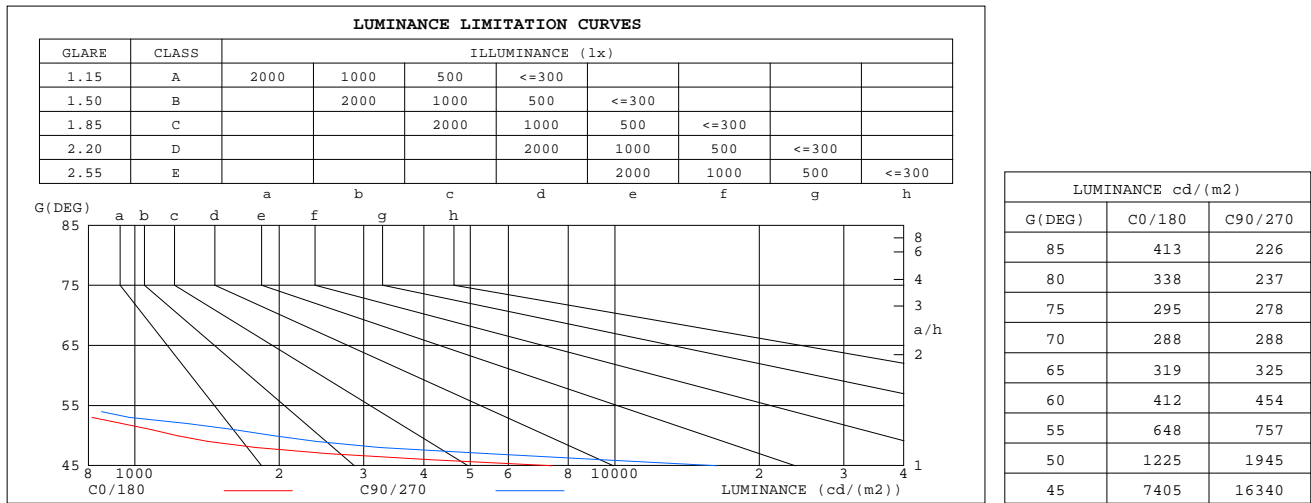
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2519	2515	2515	2474	2419	2431	2474	2509	0- 10	238.8	238.8	13.3,8.19
20	1947	1995	2043	1992	1886	1851	1913	1947	10- 20	624.5	863.4	48,29.6
30	838.4	947.2	1040	1039	980.6	873.8	796.8	789.7	20- 30	672.3	1536	85.3,52.7
40	69.03	89.88	125.5	142.0	127.7	88.27	73.48	66.44	30- 40	245.1	1781	98.9,61.1
50	1.366	1.717	2.168	2.166	1.635	1.650	1.422	1.114	40- 50	18.59	1799	99.9,61.7
60	0.3570	0.3703	0.3934	0.4240	0.4054	0.3820	0.3595	0.3412	50- 60	0.6760	1800	100,61.7
70	0.1708	0.1633	0.1707	0.1764	0.1880	0.1750	0.1657	0.1520	60- 70	0.2484	1800	100,61.7
80	0.1018	0.0702	0.0713	0.0757	0.1055	0.0803	0.0758	0.0703	70- 80	0.1303	1800	100,61.7
90	0	0	0	0	0	0	0	0	80- 90	0.0402	1801	100,61.7
100	0	0	0	0	0	0	0	0	90-100	0	1801	100,61.7
110	0	0	0	0	0	0	0	0	100-110	0	1801	100,61.7
120	0	0	0	0	0	0	0	0	110-120	0	1801	100,61.7
130	0	0	0	0	0	0	0	0	120-130	0	1801	100,61.7
140	0	0	0	0	0	0	0	0	130-140	0	1801	100,61.7
150	0	0	0	0	0	0	0	0	140-150	0	1801	100,61.7
160	0	0	0	0	0	0	0	0	150-160	0	1801	100,61.7
170	0	0	0	0	0	0	0	0	160-170	0	1801	100,61.7
180	0	0	0	0	0	0	0	0	170-180	0	1801	100,61.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.02V I:0.2355A P:28.023W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729962
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:



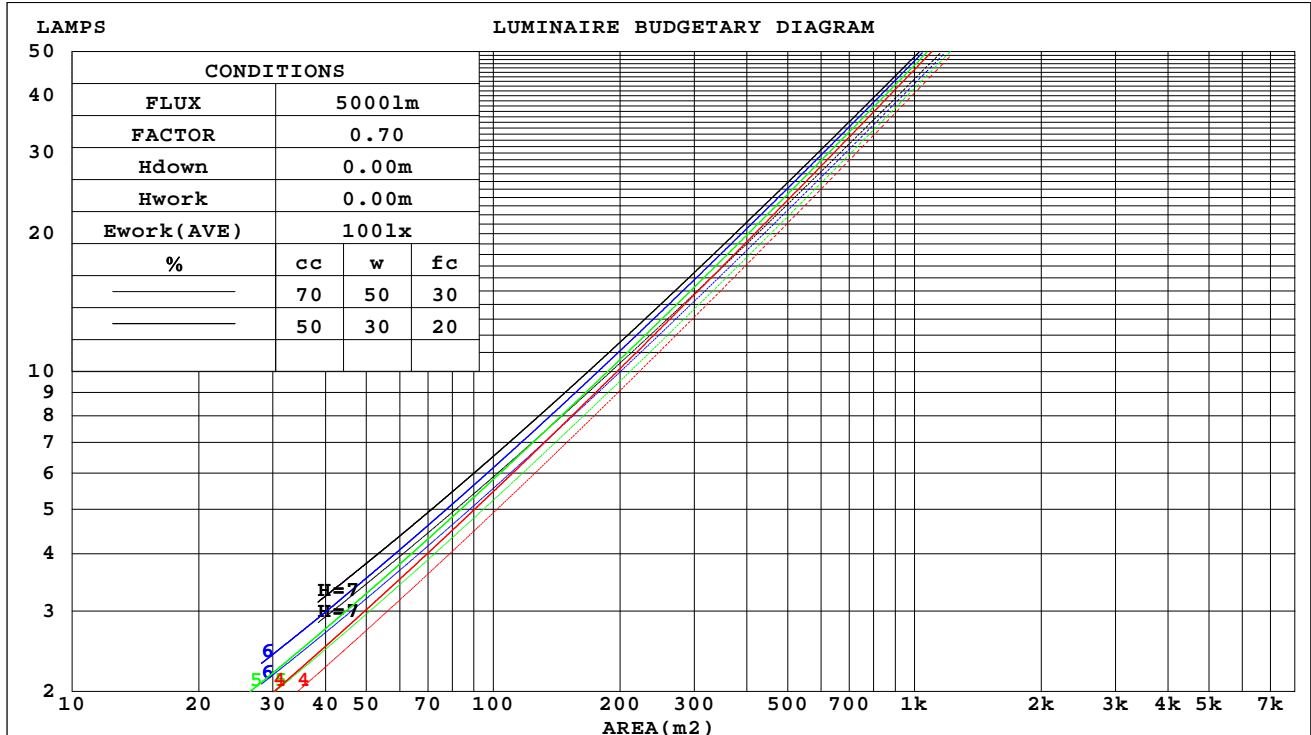
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 240729962
MFR.: RISE	SUR.: 0.001734065m2	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.: 240729962
MFR.: RISE	SUR.: 0.001734065m2	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	.101	.057	.018	.097	.055	.017	.089	.051	.016	.082	.047	.015	.075	.044	.014		
2.0	.095	.052	.016	.092	.051	.016	.086	.048	.015	.080	.045	.014	.074	.042	.013		
3.0	.091	.048	.014	.088	.047	.014	.082	.045	.014	.077	.042	.013	.072	.040	.012		
4.0	.086	.045	.013	.084	.044	.013	.079	.042	.013	.075	.040	.012	.071	.038	.012		
5.0	.082	.042	.012	.080	.041	.012	.076	.040	.012	.072	.038	.011	.069	.037	.011		
6.0	.079	.039	.011	.077	.039	.011	.073	.038	.011	.070	.036	.011	.067	.035	.010		
7.0	.075	.037	.011	.074	.037	.010	.071	.036	.010	.068	.035	.010	.065	.034	.010		
8.0	.072	.035	.010	.071	.035	.010	.068	.034	.010	.065	.033	.010	.063	.032	.009		
9.0	.069	.034	.009	.068	.033	.009	.066	.032	.009	.063	.032	.009	.061	.031	.009		
10.0	.067	.032	.009	.066	.032	.009	.063	.031	.009	.061	.030	.009	.059	.030	.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	.118	.118	.118	.101	.101	.101	.069	.069	.069	.039	.039	.039	.013	.013	.013	
1.0	.105	.097	.090	.090	.083	.078	.061	.057	.054	.035	.033	.031	.011	.011	.010	
2.0	.095	.082	.071	.081	.070	.061	.056	.049	.043	.032	.028	.025	.010	.009	.008	
3.0	.087	.070	.057	.075	.060	.049	.051	.042	.034	.030	.025	.020	.009	.008	.007	
4.0	.080	.061	.046	.069	.053	.040	.047	.037	.028	.027	.021	.017	.009	.007	.005	
5.0	.075	.054	.038	.064	.046	.033	.044	.032	.023	.026	.019	.014	.008	.006	.005	
6.0	.070	.048	.032	.060	.041	.028	.041	.029	.020	.024	.017	.012	.008	.006	.004	
7.0	.066	.043	.027	.057	.037	.024	.039	.026	.017	.023	.015	.010	.007	.005	.003	
8.0	.062	.039	.023	.054	.034	.020	.037	.024	.014	.022	.014	.009	.007	.005	.003	
9.0	.059	.036	.020	.051	.031	.017	.035	.022	.012	.021	.013	.007	.007	.004	.002	
10.0	.056	.033	.018	.049	.029	.015	.034	.020	.011	.020	.012	.006	.006	.004	.002	

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
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DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.02V I:0.2355A P:28.023W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.19x1 lm										
NAME: 2318.166-ACOT-84-AM					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 240729962		
MFR.: RISE					SUR.: 0.001734065m2			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	16.7	17.5	16.9	17.7	17.8	18.2	19.1	18.4	19.2	19.4
3H	16.5	17.3	16.7	17.5	17.7	18.0	18.8	18.3	19.0	19.2
4H	16.4	17.1	16.7	17.4	17.6	18.0	18.7	18.2	18.9	19.1
6H	16.3	17.0	16.6	17.2	17.5	17.9	18.6	18.2	18.8	19.0
8H	16.3	16.9	16.6	17.2	17.4	17.8	18.5	18.1	18.7	19.0
12H	16.2	16.9	16.5	17.1	17.4	17.8	18.4	18.1	18.7	19.0
4H 2H	16.4	17.1	16.7	17.4	17.6	18.0	18.7	18.2	18.9	19.1
3H	16.2	16.9	16.5	17.1	17.4	17.8	18.4	18.1	18.7	19.0
4H	16.1	16.7	16.5	17.0	17.3	17.7	18.3	18.0	18.6	18.9
6H	16.0	16.5	16.4	16.9	17.2	17.6	18.1	18.0	18.4	18.8
8H	16.0	16.5	16.4	16.8	17.2	17.5	18.0	17.9	18.4	18.7
12H	15.9	16.4	16.3	16.7	17.1	17.5	17.9	17.9	18.3	18.7
8H 4H	16.0	16.5	16.4	16.8	17.2	17.5	18.0	17.9	18.4	18.7
6H	15.9	16.3	16.3	16.7	17.1	17.4	17.8	17.9	18.2	18.6
8H	15.8	16.2	16.3	16.6	17.0	17.4	17.7	17.8	18.1	18.6
12H	15.8	16.1	16.2	16.5	17.0	17.3	17.6	17.8	18.1	18.5
12H 4H	15.9	16.4	16.3	16.7	17.1	17.5	17.9	17.9	18.3	18.7
6H	15.8	16.2	16.3	16.6	17.0	17.4	17.7	17.8	18.1	18.6
8H	15.8	16.1	16.2	16.5	17.0	17.3	17.6	17.8	18.1	18.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.4 / -24.6					+ 4.8 / -27.7				
1.5H	+ 7.2 / -23.1					+ 7.6 / -26.0				
2.0H	+ 8.8 / - 7.4					+ 9.9 / -12.4				

CIE Pub.117, 2916 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.7)
Area: 0.00173407 m2

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UTILIZATION FACTORS TABLE

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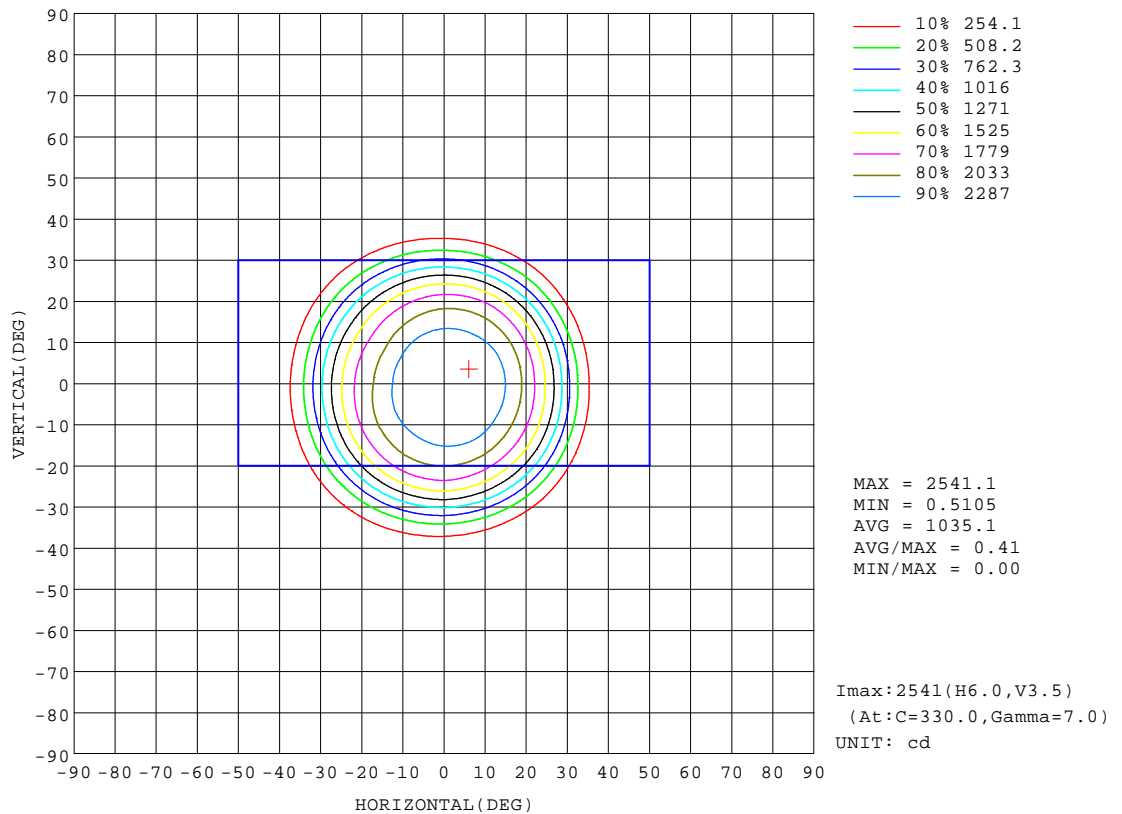
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	53	50	56	52	50	55	52	50	48
0.80	60	57	55	60	57	55	59	57	55	53
1.00	63	60	58	62	59	58	61	59	57	55
1.25	65	62	60	64	62	60	63	61	59	57
1.50	66	64	62	66	63	62	64	63	61	58
2.00	68	65	64	67	65	63	65	64	62	59
2.50	69	67	65	68	66	64	66	64	63	60
3.00	70	68	66	68	67	65	66	65	64	60
4.00	71	69	68	69	68	67	67	66	65	61
5.00	71	70	69	70	69	68	68	67	66	62
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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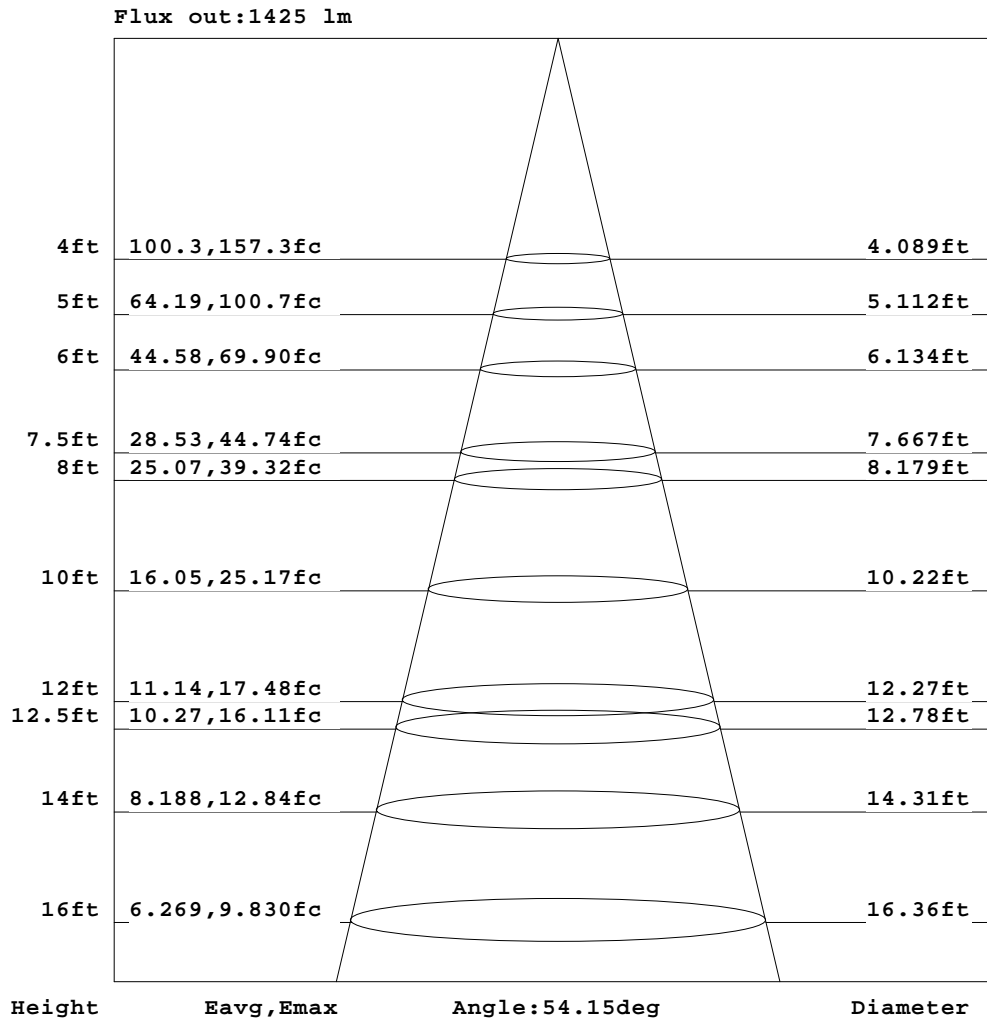


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AAI Figure

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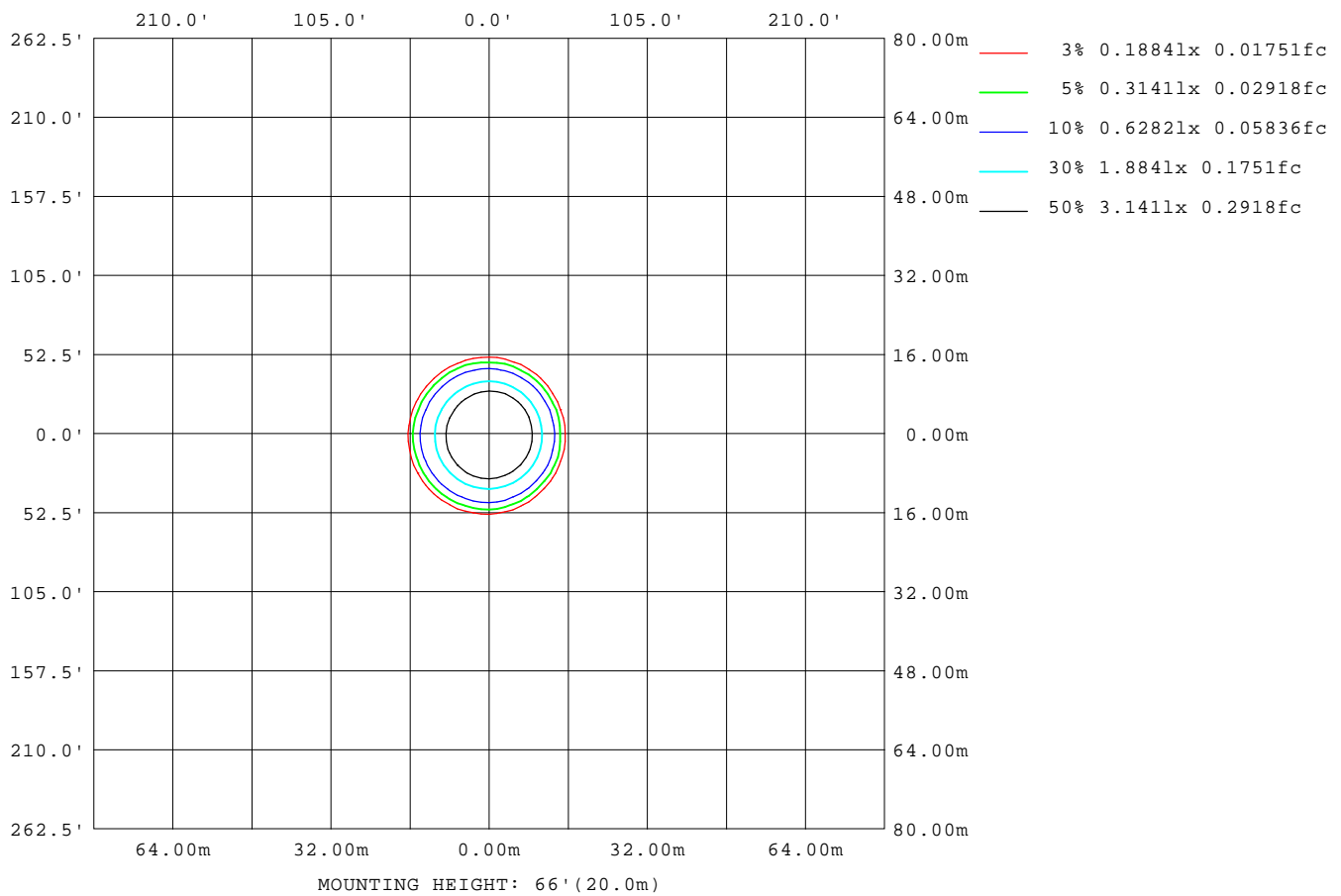
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:120.02V I:0.2355A P:28.023W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729962
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

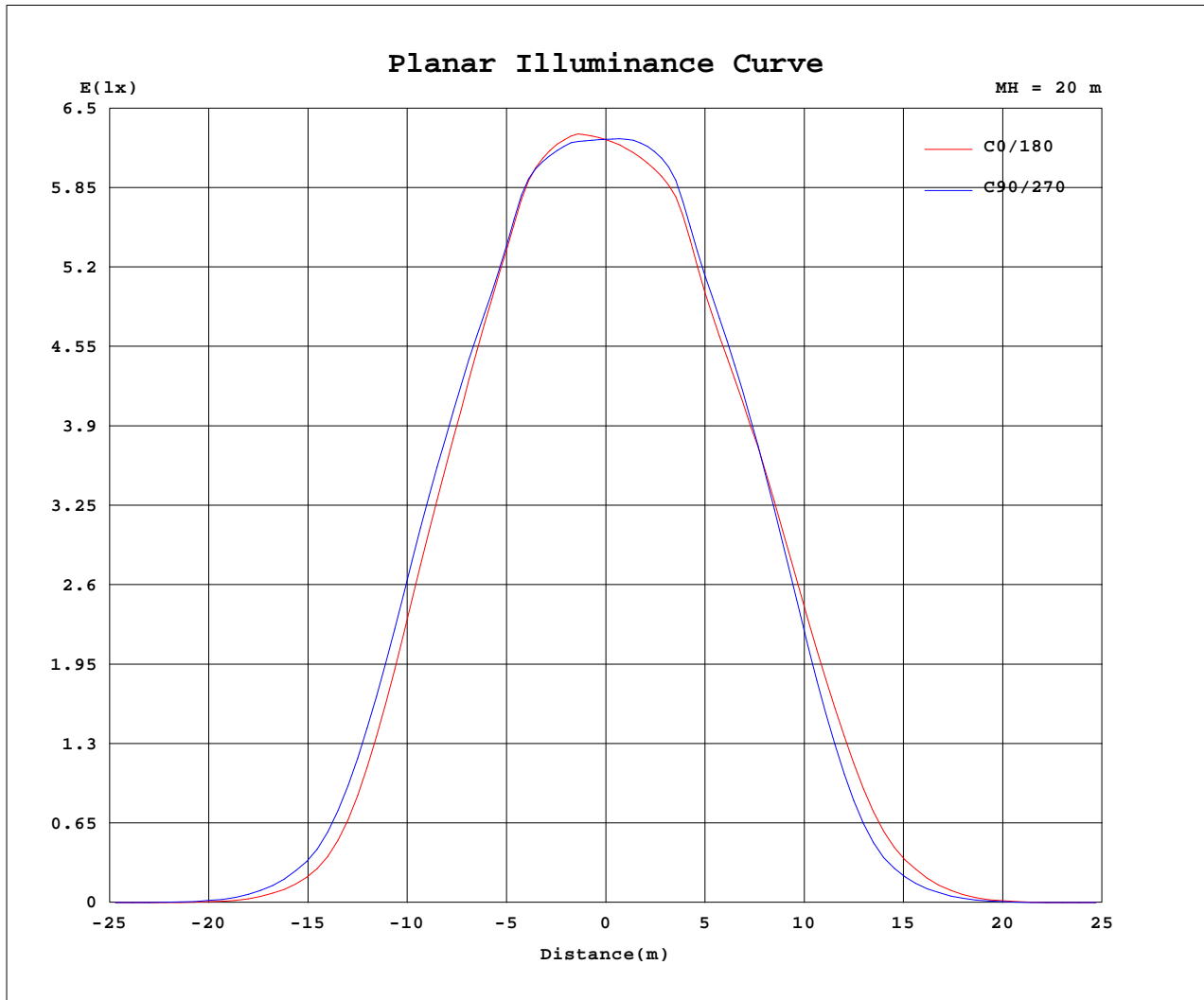
AvgL	cd/m2
L_0~180(65)av	340
L_0~180(75)av	305
L_0~180(85)av	434
L_90~270(65)av	322
L_90~270(75)av	277
L_90~270(85)av	201
L_45(65)av	327
L_45(75)av	263
L_45(85)av	116

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-29

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-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: 2024-7-29

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



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.02V I:0.2355A P:28.023W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729962
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498						
5	2539	2531	2525	2515	2499	2479	2467	2475	2495	2515	2531	2539						
10	2519	2510	2521	2515	2488	2459	2419	2414	2448	2474	2497	2522						
15	2285	2290	2314	2300	2254	2211	2136	2115	2159	2201	2229	2272						
20	1947	1975	2016	2043	2020	1963	1886	1840	1862	1913	1945	1949						
25	1485	1546	1591	1648	1635	1580	1509	1436	1420	1433	1454	1462						
30	838	918	976	1040	1051	1026	981	912	836	797	785	794						
35	275	321	369	422	447	450	425	362	306	269	257	253						
40	69.0	79.2	101	126	141	143	128	96.5	80.0	73.5	69.1	63.7						
45	9.08	10.3	13.7	20.0	21.7	22.8	18.0	11.0	10.0	9.67	8.29	8.37						
50	1.37	1.48	1.95	2.17	2.22	2.12	1.63	1.57	1.73	1.42	1.18	1.05						
55	0.64	0.67	0.71	0.75	0.79	0.81	0.65	0.62	0.60	0.58	0.56	0.56						
60	0.36	0.37	0.37	0.39	0.42	0.43	0.41	0.39	0.37	0.36	0.34	0.34						
65	0.23	0.23	0.23	0.24	0.26	0.26	0.27	0.26	0.24	0.23	0.22	0.22						
70	0.17	0.16	0.17	0.17	0.18	0.18	0.19	0.18	0.17	0.17	0.15	0.15						
75	0.13	0.12	0.12	0.12	0.12	0.13	0.14	0.13	0.12	0.12	0.11	0.11						
80	0.10	0.08	0.06	0.07	0.07	0.08	0.11	0.09	0.07	0.08	0.06	0.08						
85	0.06	0.03	0.02	0.03	0.02	0.03	0.07	0.03	0.02	0.03	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
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