

Luminaire Photograph



Light Output Ratio:	73.9%	
Luminaire Power:	7.54 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-9-19

g Range: 0 - 180DEG
g 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: CXB1304-0000-000F0UA430G Ra: 90
LENS: PM-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

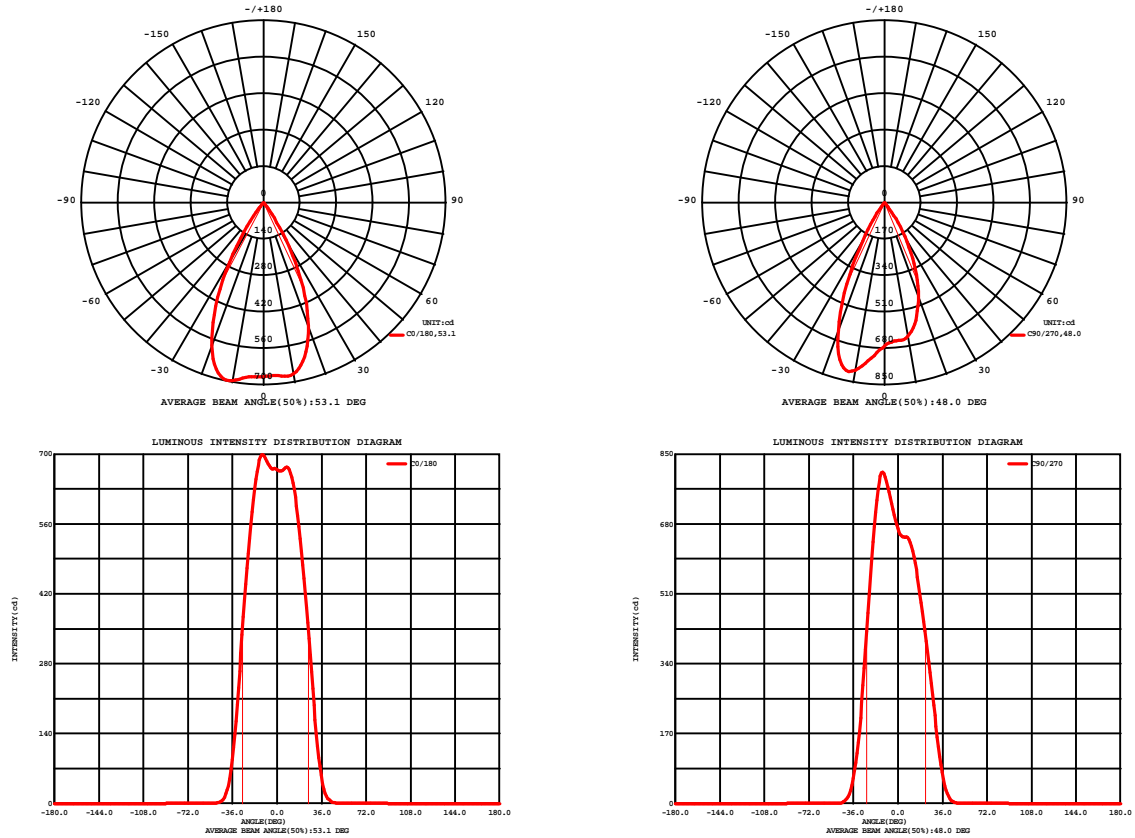


Fig. C0/C180

Fig. C90/C270

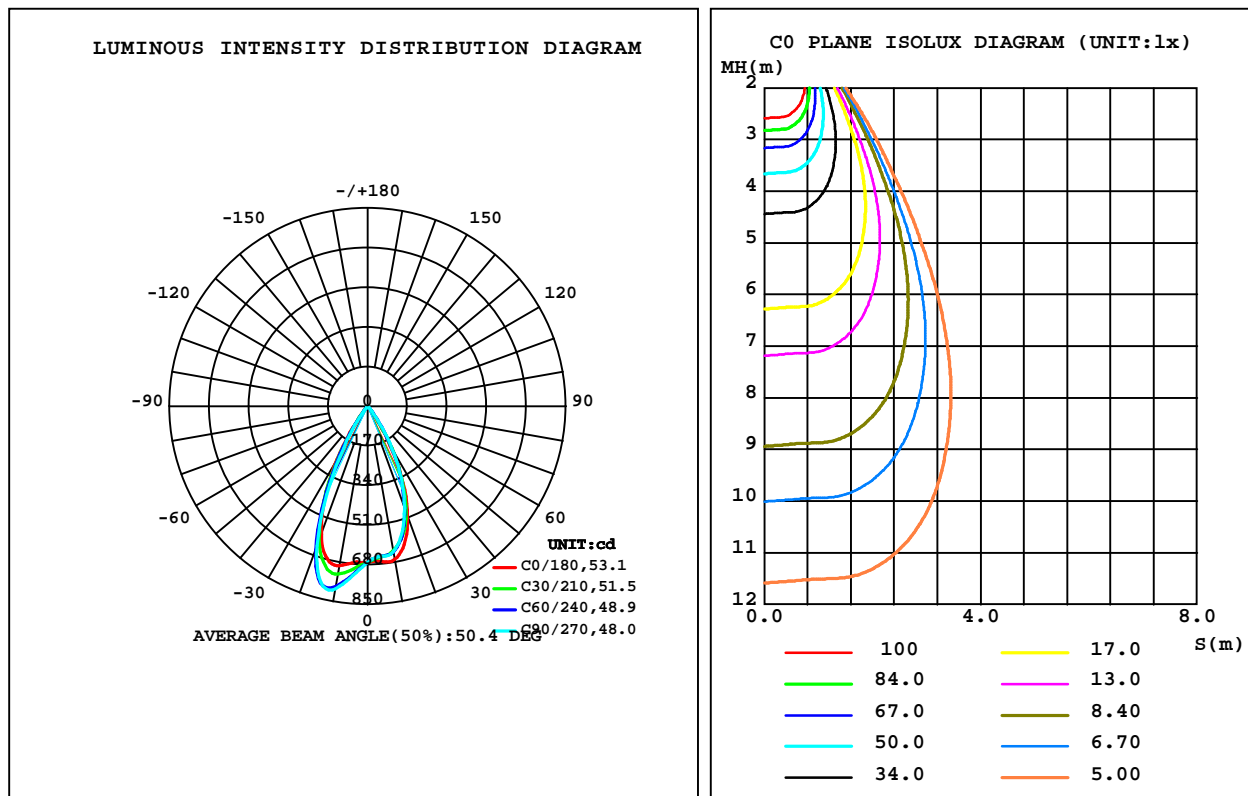
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3DEG
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Test Date: 2022-9-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.26V I:0.0374A P:7.5397W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190928
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.01 lm/W			
MODEL	CREE	I _{max} (cd)	805.8	S/MH(C0/180)	0.82
NOMINAL POWER(W)	7	LOR(%)	73.9	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	490.17	h UP,DN(C0-180)	0.0,34.4
NOMINAL FLUX(lm)	663.403	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,39.5
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	h down(%)	73.9	CIBSE SHR MAX	0.75



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Interval: 1.0DEG
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30minutes warm-up

ZONAL FLUX DIAGRAM

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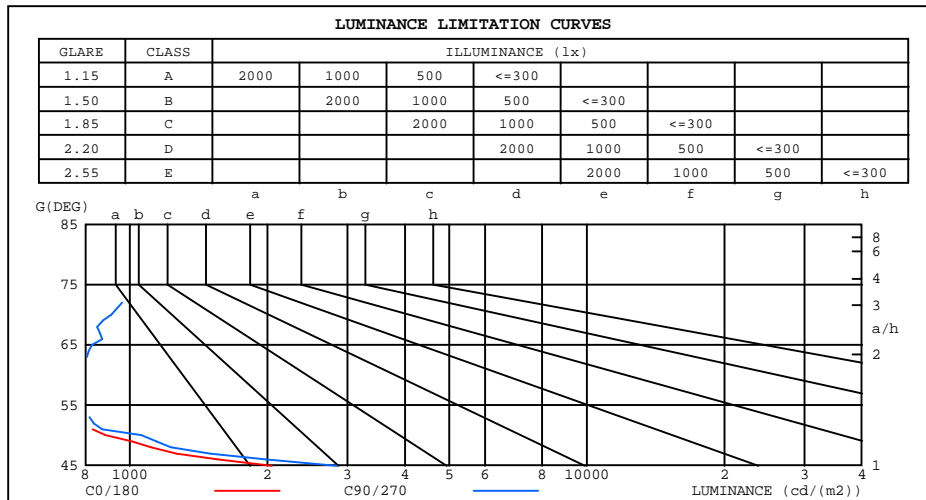
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	668.1	633.8	634.6	651.4	695.5	757.4	793.9	732.7	0- 10	65.46	65.46	13.4,9.87
20	503.9	475.8	466.2	516.3	584.6	632.1	636.2	569.3	10- 20	180.7	246.2	50.2,37.1
30	197.3	210.6	213.4	241.4	264.2	249.8	207.6	212.8	20- 30	176.1	422.3	86.1,63.7
40	14.33	22.60	24.47	29.15	27.94	26.74	16.33	19.95	30- 40	61.63	483.9	98.7,72.9
50	0.9088	1.164	1.089	1.343	0.9012	1.063	0.6377	0.8942	40- 50	5.063	489.0	99.8,73.7
60	0.5048	0.5261	0.6195	0.5406	0.4556	0.4172	0.3634	0.4213	50- 60	0.5783	489.5	99.9,73.8
70	0.4184	0.3815	0.4980	0.3850	0.3481	0.3737	0.4368	0.3759	60- 70	0.4324	490.0	100,73.9
80	0.0258	0.0249	0.0356	0.0330	0.0366	0.0311	0.0317	0.0251	70- 80	0.1896	490.2	100,73.9
90	0	0	0	0	0	0	0	0	80- 90	0.0153	490.2	100,73.9
100	0	0	0	0	0	0	0	0	90-100	0	490.2	100,73.9
110	0	0	0	0	0	0	0	0	100-110	0	490.2	100,73.9
120	0	0	0	0	0	0	0	0	110-120	0	490.2	100,73.9
130	0	0	0	0	0	0	0	0	120-130	0	490.2	100,73.9
140	0	0	0	0	0	0	0	0	130-140	0	490.2	100,73.9
150	0	0	0	0	0	0	0	0	140-150	0	490.2	100,73.9
160	0	0	0	0	0	0	0	0	150-160	0	490.2	100,73.9
170	0	0	0	0	0	0	0	0	160-170	0	490.2	100,73.9
180	0	0	0	0	0	0	0	0	170-180	0	490.2	100,73.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:2209190928
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	98	142
80	93	128
75	130	148
70	767	910
65	661	828
60	633	775
55	672	757
50	887	1060
45	2048	2838

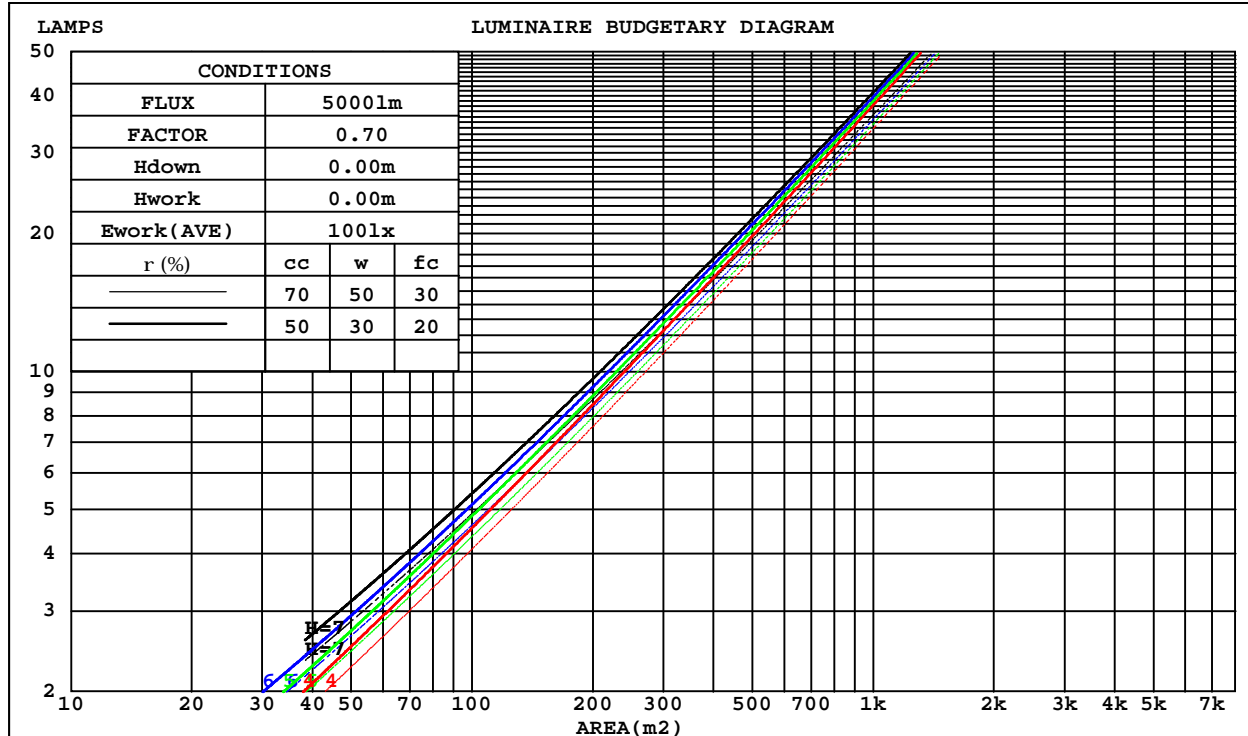
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.88	.88	.88	.86	.86	.86	.82	.82	.82	.79	.79	.79	.75	.75	.75	.74
1.0	.82	.81	.79	.81	.79	.78	.78	.77	.76	.75	.74	.73	.73	.72	.71	.70
2.0	.77	.75	.73	.76	.74	.72	.74	.72	.70	.72	.70	.69	.70	.68	.67	.66
3.0	.73	.70	.67	.72	.69	.67	.70	.68	.65	.68	.66	.64	.67	.65	.63	.62
4.0	.69	.65	.62	.68	.65	.62	.67	.64	.61	.65	.63	.61	.64	.62	.60	.59
5.0	.65	.61	.59	.65	.61	.58	.63	.60	.58	.62	.59	.57	.61	.59	.57	.56
6.0	.62	.58	.55	.61	.58	.55	.60	.57	.54	.59	.56	.54	.58	.56	.54	.53
7.0	.59	.55	.52	.58	.54	.52	.57	.54	.52	.56	.53	.51	.56	.53	.51	.50
8.0	.56	.52	.49	.55	.52	.49	.55	.51	.49	.54	.51	.49	.53	.50	.48	.48
9.0	.53	.49	.47	.53	.49	.46	.52	.49	.46	.51	.48	.46	.51	.48	.46	.45
10.0	.51	.47	.44	.50	.47	.44	.50	.46	.44	.49	.46	.44	.49	.46	.44	.43



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WEC AND CCEC

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NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190928
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.120	.068	.022	.115	.066	.021	.106	.061	.019	.097	.056	.018	.089	.052	.017	
2.0	.114	.062	.019	.109	.060	.019	.102	.057	.018	.095	.053	.017	.088	.050	.016	
3.0	.108	.057	.017	.104	.056	.017	.098	.053	.016	.092	.050	.015	.086	.048	.015	
4.0	.102	.053	.016	.099	.052	.015	.094	.050	.015	.089	.048	.014	.084	.046	.014	
5.0	.098	.050	.014	.095	.049	.014	.090	.047	.014	.086	.045	.013	.081	.044	.013	
6.0	.093	.047	.013	.091	.046	.013	.087	.044	.013	.083	.043	.013	.079	.042	.012	
7.0	.089	.044	.013	.087	.044	.012	.084	.042	.012	.080	.041	.012	.077	.040	.012	
8.0	.086	.042	.012	.084	.041	.012	.081	.040	.011	.077	.039	.011	.075	.038	.011	
9.0	.082	.040	.011	.081	.039	.011	.078	.038	.011	.075	.038	.011	.072	.037	.011	
10.0	.079	.038	.011	.078	.038	.010	.075	.037	.010	.073	.036	.010	.070	.035	.010	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.141	.141	.141	.120	.120	.120	.082	.082	.082	.047	.047	.047	.015	.015	.015	
1.0	.126	.116	.108	.108	.100	.093	.074	.069	.064	.042	.040	.037	.014	.013	.012	
2.0	.114	.098	.085	.097	.084	.073	.067	.058	.051	.038	.034	.030	.012	.011	.010	
3.0	.104	.084	.068	.089	.072	.059	.061	.050	.041	.035	.029	.024	.011	.010	.008	
4.0	.096	.073	.055	.082	.063	.048	.057	.044	.034	.033	.026	.020	.011	.008	.007	
5.0	.089	.064	.046	.076	.055	.040	.053	.039	.028	.030	.023	.017	.010	.007	.005	
6.0	.083	.057	.038	.072	.049	.033	.049	.035	.024	.029	.020	.014	.009	.007	.005	
7.0	.078	.051	.032	.067	.044	.028	.047	.031	.020	.027	.018	.012	.009	.006	.004	
8.0	.074	.047	.028	.064	.040	.024	.044	.028	.017	.026	.017	.010	.008	.005	.003	
9.0	.070	.043	.024	.061	.037	.021	.042	.026	.015	.024	.015	.009	.008	.005	.003	
10.0	.067	.039	.021	.058	.034	.018	.040	.024	.013	.023	.014	.008	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2209190928		
MFR.: RISE					SUR.:0.0016m2			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	15.4	16.2	15.6	16.4	16.5	16.2	17.1	16.4	17.2	17.4
3H	15.2	16.0	15.5	16.2	16.4	16.1	16.8	16.3	17.0	17.2
4H	15.1	15.9	15.4	16.1	16.3	16.0	16.7	16.2	16.9	17.1
6H	15.0	15.7	15.3	16.0	16.2	15.9	16.6	16.2	16.8	17.1
8H	15.0	15.7	15.3	15.9	16.2	15.8	16.5	16.1	16.8	17.0
12H	15.0	15.6	15.3	15.9	16.1	15.8	16.4	16.1	16.7	17.0
4H 2H	15.1	15.9	15.4	16.1	16.3	16.0	16.7	16.2	16.9	17.1
3H	15.0	15.6	15.3	15.9	16.1	15.8	16.4	16.1	16.7	17.0
4H	14.9	15.4	15.2	15.7	16.0	15.7	16.3	16.0	16.6	16.9
6H	14.8	15.3	15.1	15.6	15.9	15.6	16.1	16.0	16.4	16.8
8H	14.7	15.2	15.1	15.5	15.9	15.6	16.0	15.9	16.4	16.7
12H	14.7	15.1	15.1	15.5	15.8	15.5	15.9	15.9	16.3	16.7
8H 4H	14.7	15.2	15.1	15.5	15.9	15.6	16.0	15.9	16.4	16.7
6H	14.6	15.0	15.0	15.4	15.8	15.4	15.8	15.9	16.2	16.6
8H	14.6	14.9	15.0	15.3	15.7	15.4	15.7	15.8	16.1	16.6
12H	14.5	14.8	15.0	15.2	15.7	15.3	15.6	15.8	16.1	16.5
12H 4H	14.7	15.1	15.1	15.5	15.8	15.5	15.9	15.9	16.3	16.7
6H	14.6	14.9	15.0	15.3	15.7	15.4	15.7	15.8	16.1	16.6
8H	14.5	14.8	15.0	15.2	15.7	15.3	15.6	15.8	16.1	16.5
Variations with the observer position at spacings:										
S = 1.0H	+ 4.2 / -13.5					+ 4.9 / -14.7				
1.5H	+ 6.9 / -12.3					+ 7.7 / -13.6				
2.0H	+ 4.5 / - 2.0					+ 5.1 / - 2.8				

CIE Pub.117, 663.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.4)
Area: 0.0016 m2

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UTILIZATION FACTORS TABLE

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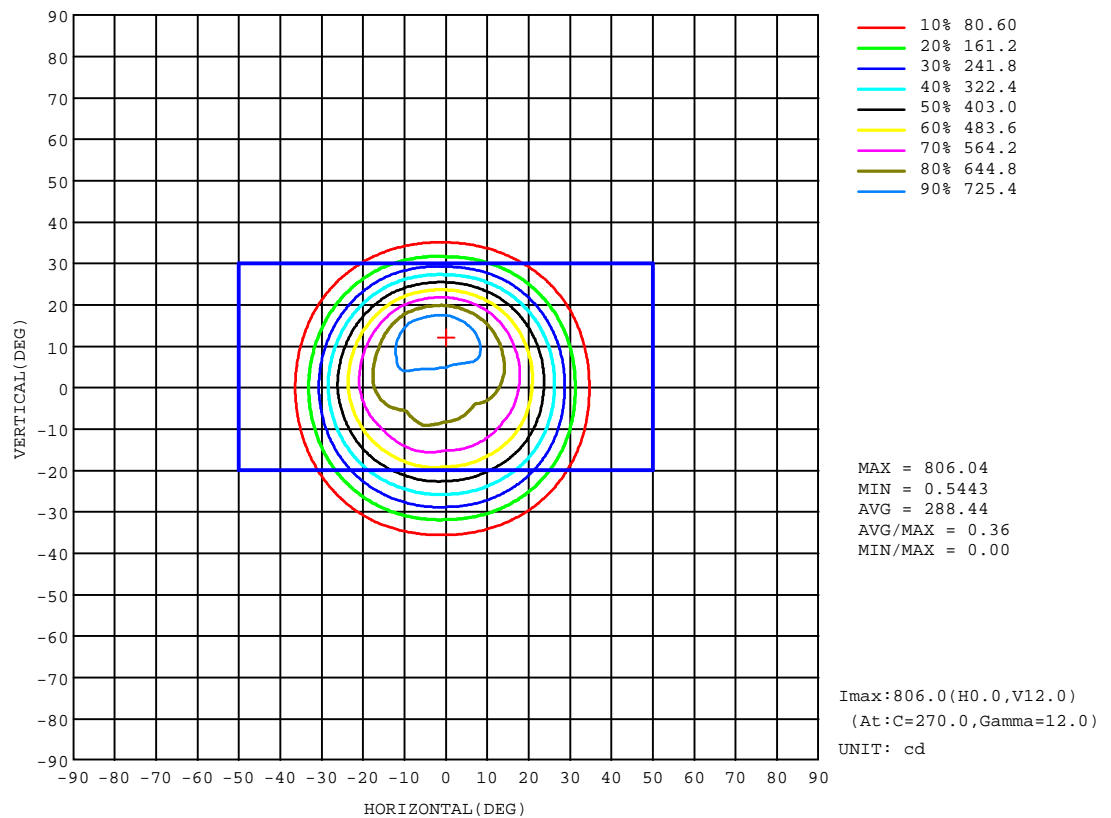
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	63	60	67	63	60	66	62	60	58
0.80	72	68	66	72	68	66	71	68	66	63
1.00	75	71	69	74	71	69	73	71	68	66
1.25	78	74	72	77	74	72	76	73	71	68
1.50	79	76	74	79	76	74	77	75	73	70
2.00	81	78	76	80	78	76	78	76	74	71
2.50	82	80	78	81	79	77	79	77	76	71
3.00	83	81	79	82	80	78	79	78	77	72
4.00	85	83	81	83	82	80	80	79	78	73
5.00	85	84	83	84	83	82	81	80	79	74
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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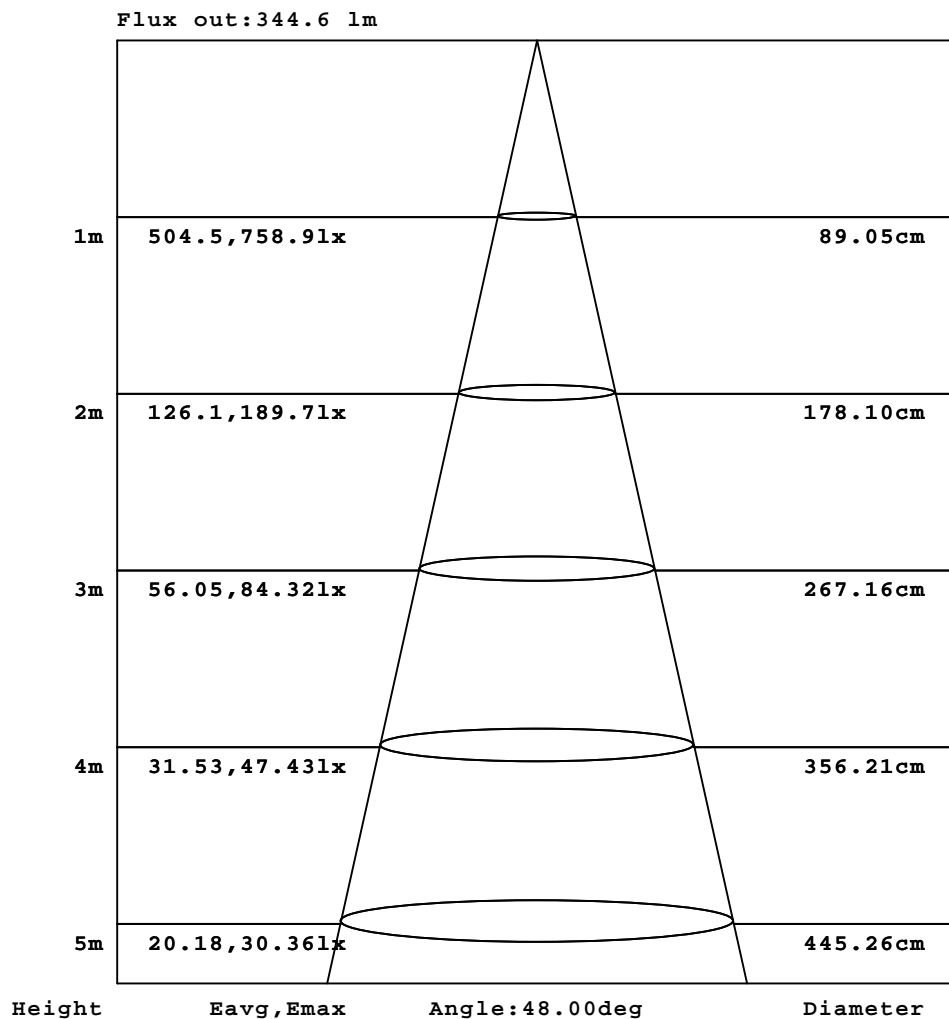


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Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

AAI Figure

Test:U:220.26V I:0.0374A P:7.5397W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190928
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



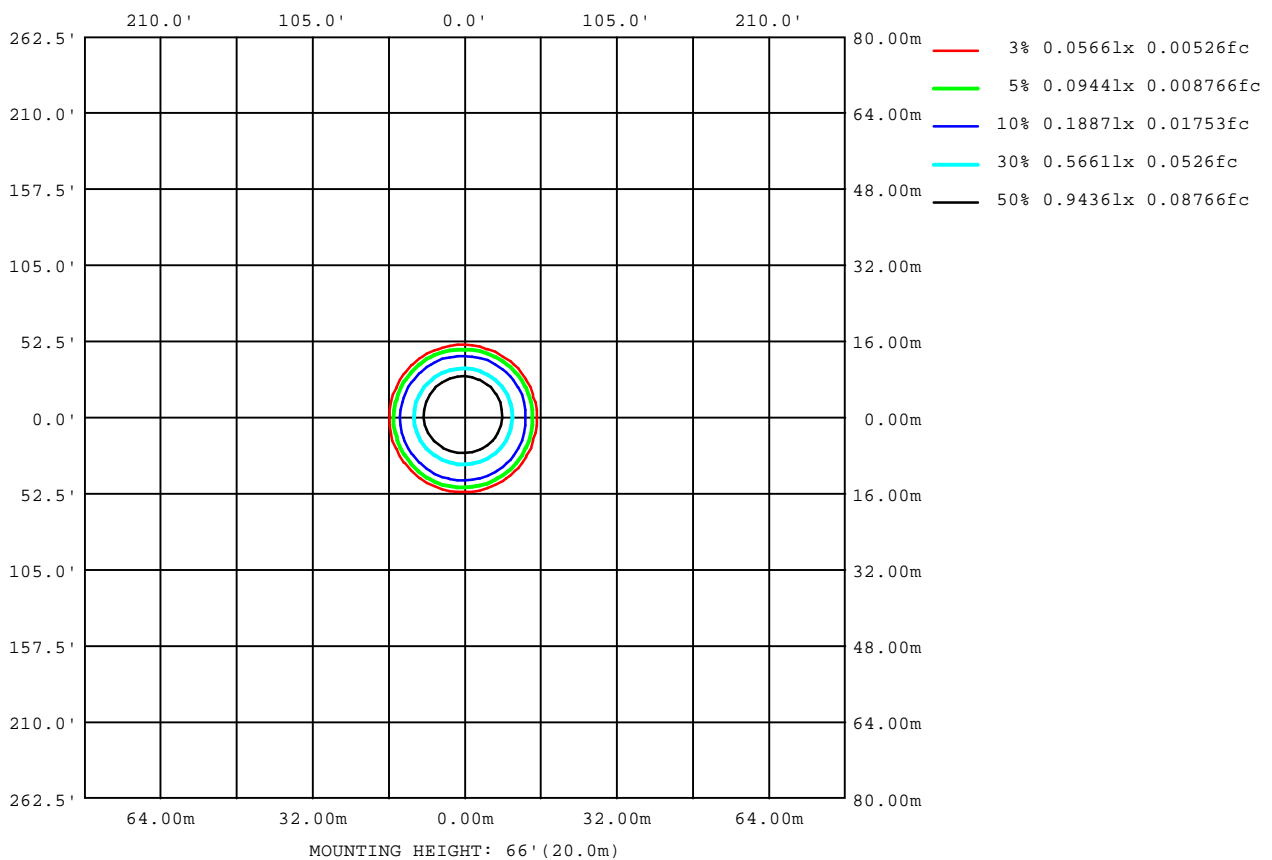
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-19

g 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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.26V I:0.0374A P:7.5397W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190928
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-19

g Range: 0 - 180DEG
g 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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.26V I:0.0374A P:7.5397W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190928
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

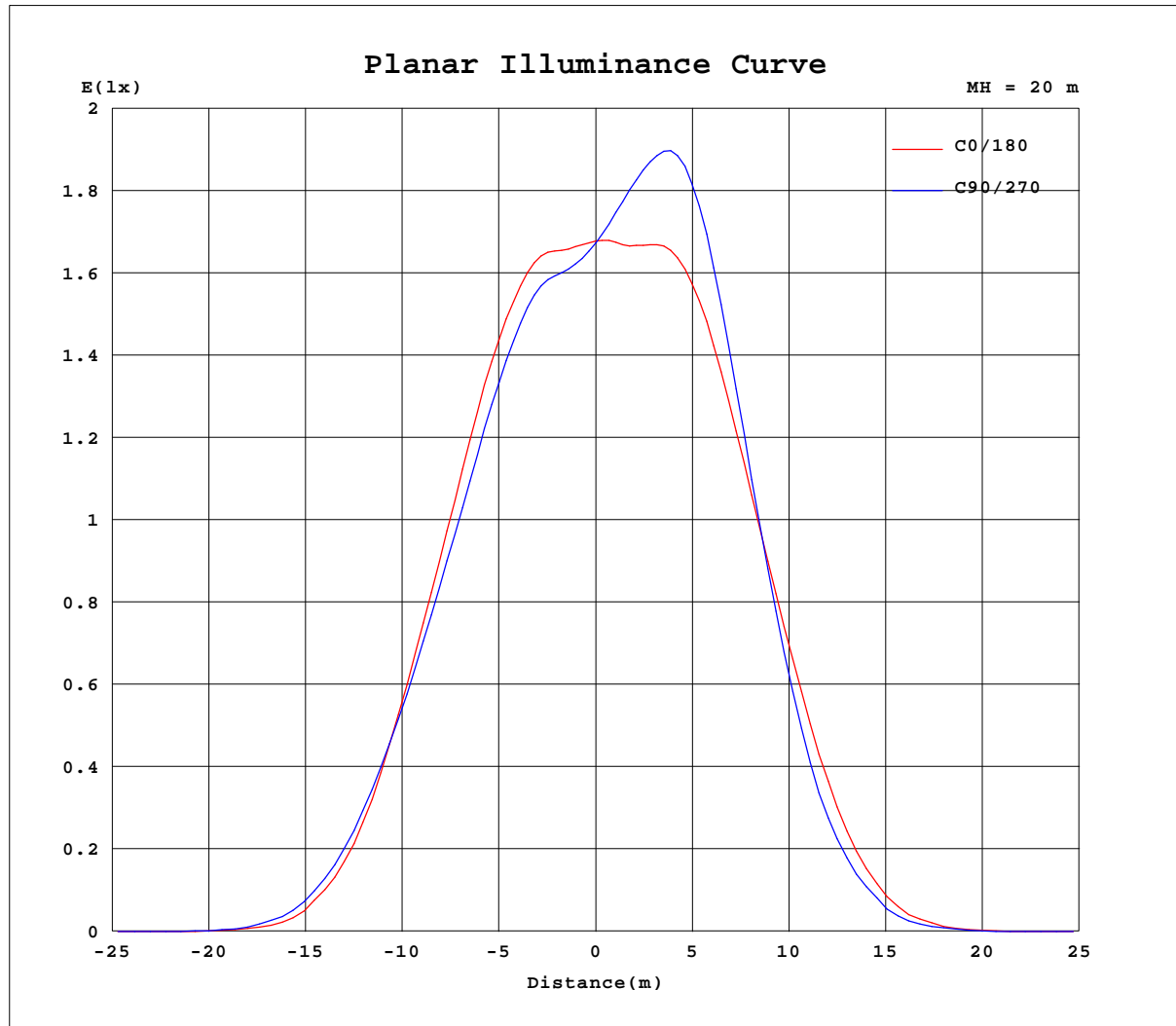
AvgL	cd/m2
L_0~180(65)av	619
L_0~180(75)av	167
L_0~180(85)av	112
L_90~270(65)av	693
L_90~270(75)av	147
L_90~270(85)av	123
L_45(65)av	638
L_45(75)av	449
L_45(85)av	78

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-19

g 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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2022-9-19

deg 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: CXB1304-0000-000F0UA430G Ra:90
 LENS: PM-1084C 50R
 DRIVER: KEDH009S0350NR12A1 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.26V I:0.0374A P:7.5397W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190928
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	669	669	669	669	669	669	669	669	669	669	669	669						
5	668	650	646	648	650	655	672	700	725	729	713	691						
10	668	631	637	635	650	653	695	732	783	794	751	715						
15	613	579	574	568	604	614	678	710	784	782	724	665						
20	504	486	466	466	496	536	585	610	654	636	596	542						
25	362	353	343	345	366	404	439	444	445	418	405	384						
30	197	209	212	213	232	251	264	256	244	208	216	210						
35	74.5	80.4	87.3	94.0	103	108	112	100.0	92.3	80.2	76.2	78.5						
40	14.3	21.6	23.6	24.5	29.1	29.2	27.9	26.9	26.6	16.3	20.5	19.4						
45	2.31	3.81	4.86	3.21	6.78	5.98	3.98	6.03	4.90	2.18	3.43	4.01						
50	0.91	1.10	1.23	1.09	1.34	1.34	0.90	1.17	0.96	0.64	0.80	0.99						
55	0.61	0.67	0.69	0.69	0.74	0.66	0.60	0.58	0.51	0.41	0.49	0.58						
60	0.50	0.51	0.54	0.62	0.58	0.50	0.46	0.44	0.40	0.36	0.39	0.46						
65	0.45	0.45	0.49	0.56	0.51	0.43	0.39	0.39	0.39	0.38	0.38	0.42						
70	0.42	0.37	0.40	0.50	0.43	0.34	0.35	0.36	0.38	0.44	0.37	0.39						
75	0.05	0.05	0.08	0.06	0.21	0.22	0.08	0.25	0.26	0.06	0.18	0.14						
80	0.03	0.02	0.03	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.02						
85	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01						
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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Operators:Zoe
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