

Luminaire Photograph



Light Output Ratio:	54.6%	
Luminaire Power:	7.542 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	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-1084 15R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

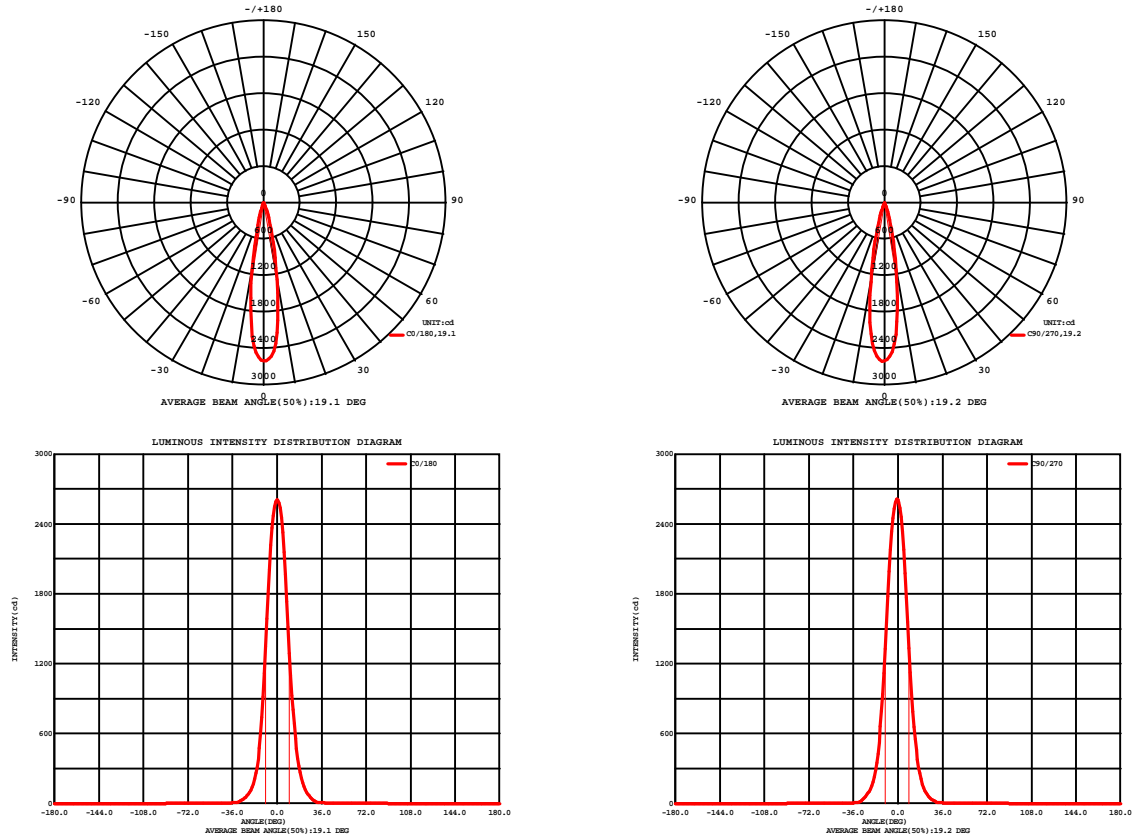


Fig. C0/C180

Fig. C90/C270

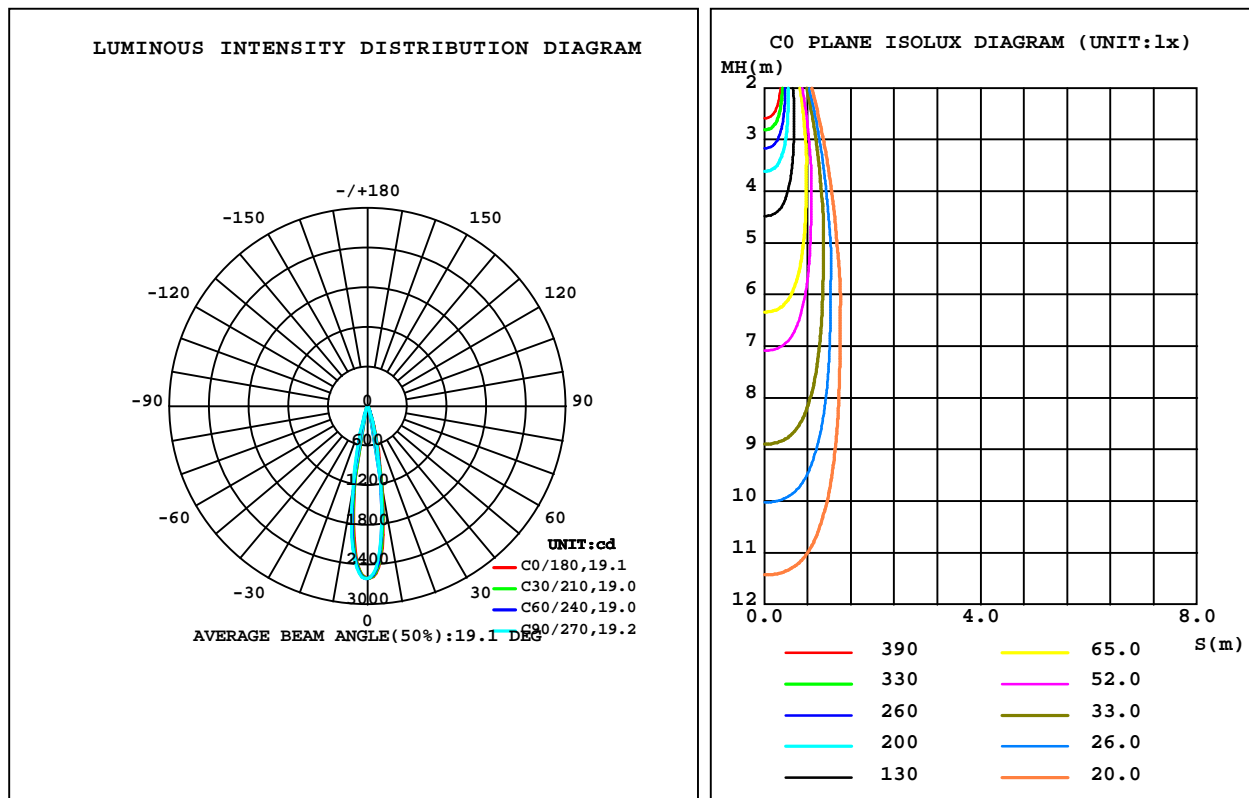
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.22V I:0.0374A P:7.5416W PF:0.9121 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190922
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 48.03 lm/W			
MODEL	CREE	I _{max} (cd)	2612	S/MH(C0/180)	0.31
NOMINAL POWER(W)	7	LOR(%)	54.6	S/MH(C90/270)	0.34
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	362.19	h UP,DN(C0-180)	0.0,26.5
NOMINAL FLUX(lm)	663.403	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,28.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	h down(%)	54.6	CIBSE SHR MAX	1.00



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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
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30minutes warm-up

ZONAL FLUX DIAGRAM

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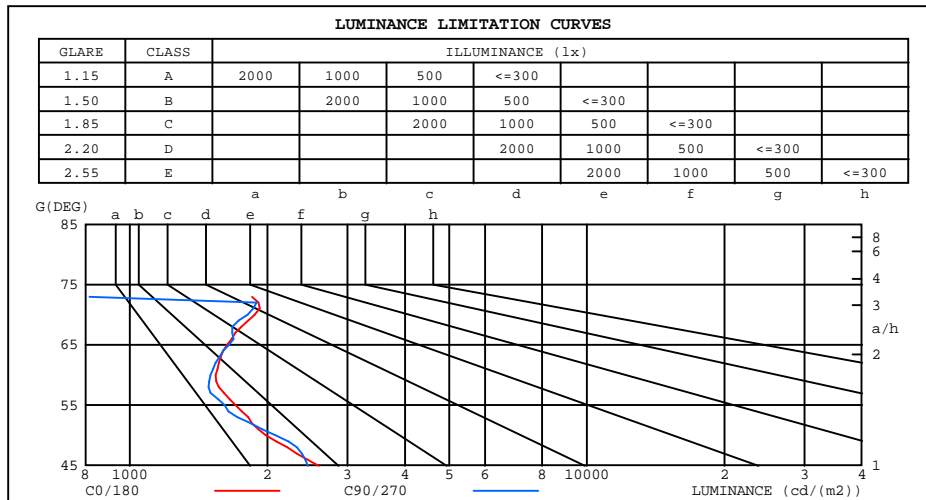
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1287	1181	1125	1028	1118	1218	1328	1355	0- 10	179.8	179.8	49.6,27.1
20	216.9	194.6	162.5	136.1	137.6	152.4	185.5	212.9	10- 20	138.2	318.0	87.8,47.9
30	23.60	27.46	18.78	20.81	18.13	23.27	19.86	31.03	20- 30	34.33	352.3	97.3,53.1
40	4.507	3.370	3.709	3.026	3.370	3.064	3.142	3.383	30- 40	5.653	358.0	98.8,54
50	2.034	1.558	2.142	1.387	1.538	1.296	1.392	1.415	40- 50	1.702	359.7	99.3,54.2
60	1.233	1.005	1.203	0.9384	1.014	0.9167	1.059	0.9472	50- 60	1.091	360.8	99.6,54.4
70	1.025	0.8202	0.9917	0.7163	0.8155	0.9031	1.257	0.9570	60- 70	0.9501	361.7	99.9,54.5
80	0.0752	0.1656	0.1384	0.1350	0.0709	0.0548	0.0563	0.0588	70- 80	0.4301	362.1	100,54.6
90	0	0	0	0	0	0	0	0	80- 90	0.0488	362.2	100,54.6
100	0	0	0	0	0	0	0	0	90-100	0	362.2	100,54.6
110	0	0	0	0	0	0	0	0	100-110	0	362.2	100,54.6
120	0	0	0	0	0	0	0	0	110-120	0	362.2	100,54.6
130	0	0	0	0	0	0	0	0	120-130	0	362.2	100,54.6
140	0	0	0	0	0	0	0	0	130-140	0	362.2	100,54.6
150	0	0	0	0	0	0	0	0	140-150	0	362.2	100,54.6
160	0	0	0	0	0	0	0	0	150-160	0	362.2	100,54.6
170	0	0	0	0	0	0	0	0	160-170	0	362.2	100,54.6
180	0	0	0	0	0	0	0	0	170-180	0	362.2	100,54.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:2209190922
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	259	666
80	271	498
75	346	531
70	1876	1813
65	1634	1650
60	1544	1504
55	1703	1615
50	1981	2084
45	2591	2454

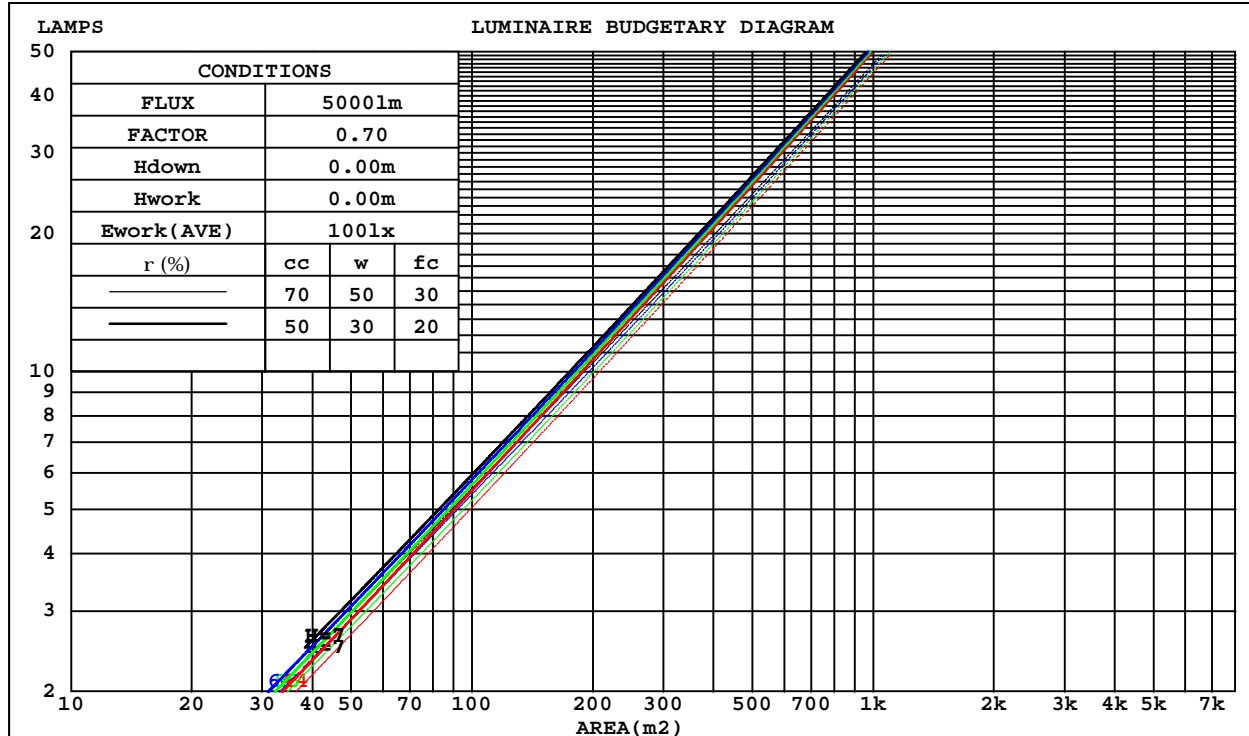
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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rcc	80%			70%			50%			30%			10%			0
r _w	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	.65	.65	.65	.63	.63	.63	.61	.61	.61	.58	.58	.58	.56	.56	.56	.55
1.0	.62	.61	.60	.61	.60	.59	.59	.58	.57	.57	.56	.56	.55	.54	.54	.53
2.0	.59	.58	.57	.59	.57	.56	.57	.56	.55	.55	.54	.54	.54	.53	.53	.52
3.0	.57	.55	.54	.57	.55	.54	.55	.54	.53	.54	.53	.52	.53	.52	.51	.51
4.0	.55	.53	.52	.55	.53	.52	.54	.52	.51	.53	.52	.51	.52	.51	.50	.49
5.0	.54	.52	.50	.53	.51	.50	.52	.51	.50	.52	.50	.49	.51	.50	.49	.48
6.0	.52	.50	.49	.52	.50	.49	.51	.50	.48	.51	.49	.48	.50	.49	.48	.47
7.0	.51	.49	.48	.51	.49	.48	.50	.48	.47	.50	.48	.47	.49	.48	.47	.46
8.0	.50	.48	.47	.50	.48	.46	.49	.47	.46	.49	.47	.46	.48	.47	.46	.45
9.0	.49	.47	.46	.49	.47	.45	.48	.46	.45	.48	.46	.45	.47	.46	.45	.45
10.0	.48	.46	.45	.48	.46	.45	.47	.46	.44	.47	.45	.44	.47	.45	.44	.44



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2209190922
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	.069	.039	.012	.065	.037	.012	.058	.034	.011	.052	.030	.010	.047	.027	.009	
2.0	.063	.035	.011	.060	.033	.010	.055	.030	.009	.049	.028	.009	.045	.025	.008	
3.0	.058	.031	.009	.056	.030	.009	.051	.028	.008	.047	.026	.008	.043	.024	.007	
4.0	.054	.028	.008	.052	.027	.008	.048	.026	.008	.045	.024	.007	.041	.022	.007	
5.0	.050	.026	.007	.049	.025	.007	.046	.024	.007	.043	.022	.007	.040	.021	.006	
6.0	.047	.024	.007	.046	.023	.007	.043	.022	.006	.041	.021	.006	.038	.020	.006	
7.0	.045	.022	.006	.044	.022	.006	.041	.021	.006	.039	.020	.006	.037	.019	.006	
8.0	.042	.021	.006	.041	.020	.006	.039	.020	.006	.037	.019	.005	.036	.018	.005	
9.0	.040	.020	.005	.039	.019	.005	.038	.019	.005	.036	.018	.005	.034	.017	.005	
10.0	.039	.018	.005	.038	.018	.005	.036	.018	.005	.035	.017	.005	.033	.017	.005	

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	.104	.104	.104	.089	.089	.089	.061	.061	.061	.035	.035	.035	.011	.011	.011	
1.0	.091	.086	.081	.078	.074	.070	.054	.051	.048	.031	.029	.028	.010	.009	.009	
2.0	.081	.072	.065	.070	.062	.056	.048	.043	.039	.027	.025	.023	.009	.008	.008	
3.0	.073	.062	.053	.062	.053	.046	.043	.037	.032	.025	.022	.019	.008	.007	.006	
4.0	.065	.053	.044	.056	.046	.038	.039	.032	.027	.022	.019	.016	.007	.006	.005	
5.0	.059	.046	.037	.051	.040	.032	.035	.028	.023	.020	.016	.013	.007	.005	.004	
6.0	.054	.041	.031	.047	.035	.027	.032	.025	.019	.019	.015	.011	.006	.005	.004	
7.0	.050	.036	.027	.043	.031	.023	.030	.022	.017	.017	.013	.010	.006	.004	.003	
8.0	.046	.033	.023	.040	.028	.020	.027	.020	.014	.016	.012	.009	.005	.004	.003	
9.0	.043	.029	.020	.037	.025	.018	.026	.018	.013	.015	.011	.007	.005	.003	.002	
10.0	.040	.027	.018	.035	.023	.015	.024	.016	.011	.014	.010	.007	.005	.003	.002	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2209190922		
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	3.4	3.9	3.6	4.1	4.2	2.8	3.4	3.0	3.6	3.7
3H	4.7	5.2	4.9	5.4	5.6	4.3	4.8	4.5	5.0	5.2
4H	5.1	5.6	5.3	5.8	6.0	4.4	4.9	4.7	5.1	5.3
6H	5.0	5.5	5.3	5.7	6.0	4.4	4.9	4.7	5.1	5.4
8H	5.0	5.4	5.3	5.7	5.9	4.4	4.9	4.7	5.1	5.4
12H	4.9	5.4	5.2	5.6	5.9	4.4	4.9	4.7	5.1	5.4
4H 2H	3.6	4.2	3.9	4.4	4.6	3.2	3.7	3.4	3.9	4.1
3H	5.2	5.7	5.5	5.9	6.2	4.9	5.3	5.2	5.6	5.8
4H	5.6	6.0	5.9	6.3	6.6	5.0	5.4	5.4	5.7	6.0
6H	5.6	5.9	5.9	6.3	6.6	5.0	5.4	5.4	5.7	6.1
8H	5.5	5.9	5.9	6.2	6.6	5.0	5.4	5.4	5.7	6.1
12H	5.5	5.8	5.9	6.2	6.5	5.0	5.4	5.4	5.7	6.1
8H 4H	5.6	6.0	6.0	6.3	6.7	5.1	5.4	5.5	5.8	6.1
6H	5.6	5.9	6.0	6.3	6.7	5.2	5.4	5.6	5.8	6.2
8H	5.6	5.8	6.0	6.2	6.7	5.2	5.4	5.6	5.8	6.3
12H	5.5	5.8	6.0	6.2	6.7	5.2	5.4	5.6	5.8	6.3
12H 4H	5.6	5.9	6.0	6.3	6.7	5.0	5.4	5.4	5.7	6.1
6H	5.6	5.8	6.0	6.2	6.7	5.1	5.4	5.6	5.8	6.2
8H	5.5	5.8	6.0	6.2	6.7	5.1	5.3	5.6	5.8	6.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 0.8					+ 0.9 / - 0.8				
1.5H	+ 1.4 / - 0.9					+ 0.9 / - 0.7				
2.0H	+ 2.1 / - 1.4					+ 2.7 / - 1.0				

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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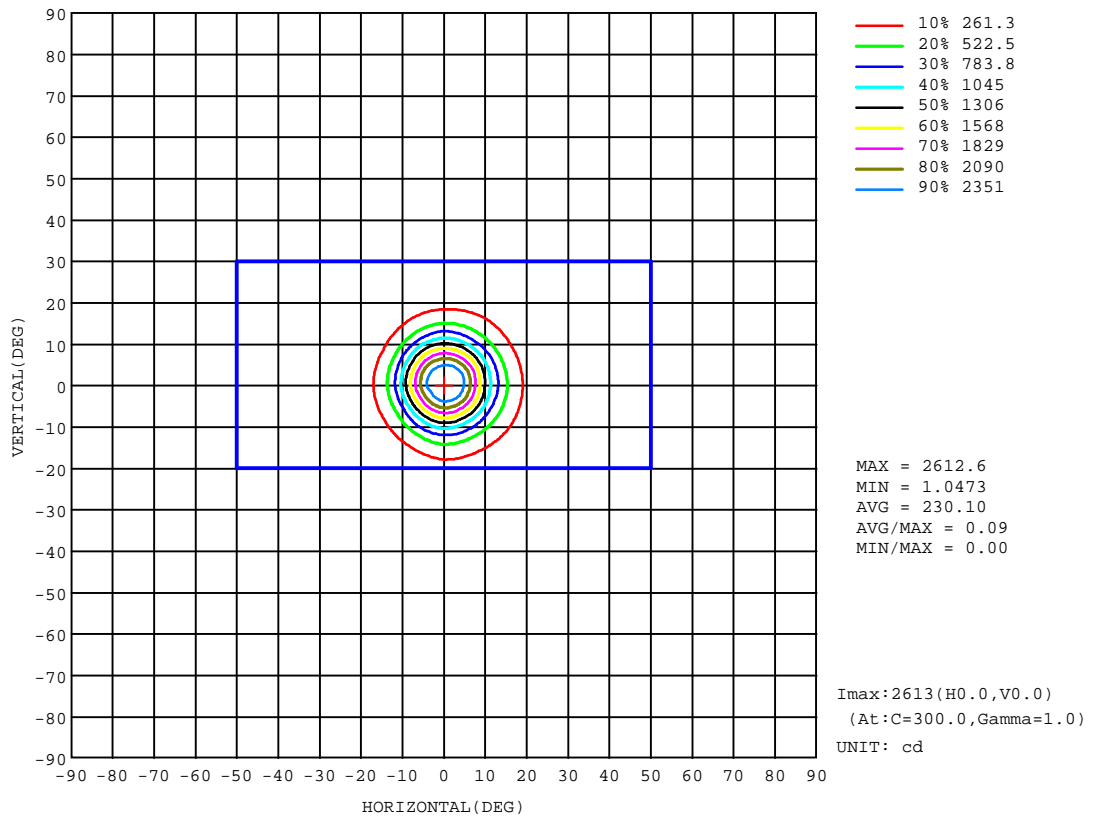
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	46	45	49	46	45	49	46	45	43
0.80	53	51	49	53	50	49	52	50	48	47
1.00	55	53	51	55	52	51	54	52	50	49
1.25	57	55	53	57	55	53	56	54	52	50
1.50	59	56	55	58	56	54	57	55	54	52
2.00	60	58	56	59	57	56	58	56	55	52
2.50	61	59	57	60	58	57	58	57	56	53
3.00	61	60	58	61	59	58	59	58	57	53
4.00	63	61	60	61	60	59	59	59	58	54
5.00	63	62	61	62	61	60	60	59	59	55
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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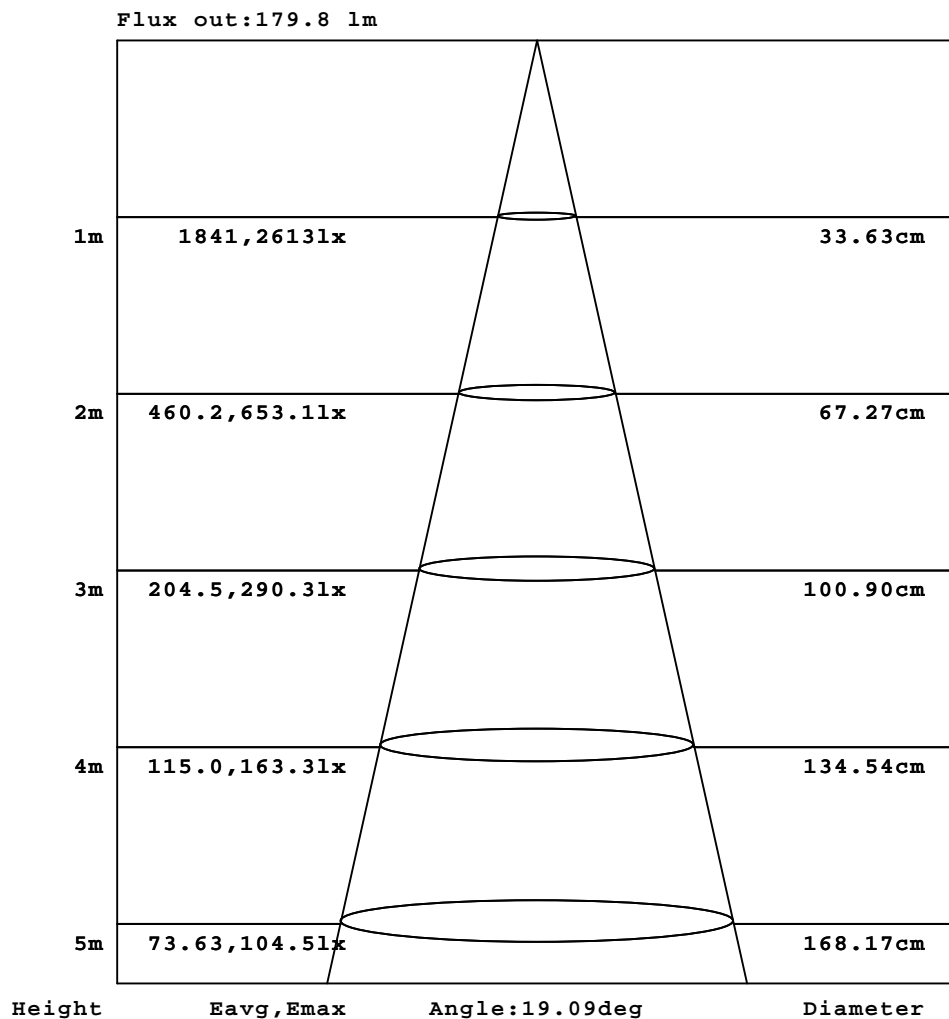


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 LENS: PM-1084 15R
 DRIVER: KEDH009S0350NR12A1 350mA
 30minutes warm-up

AAI Figure

Test:U:220.22V I:0.0374A P:7.5416W PF:0.9121 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190922
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.

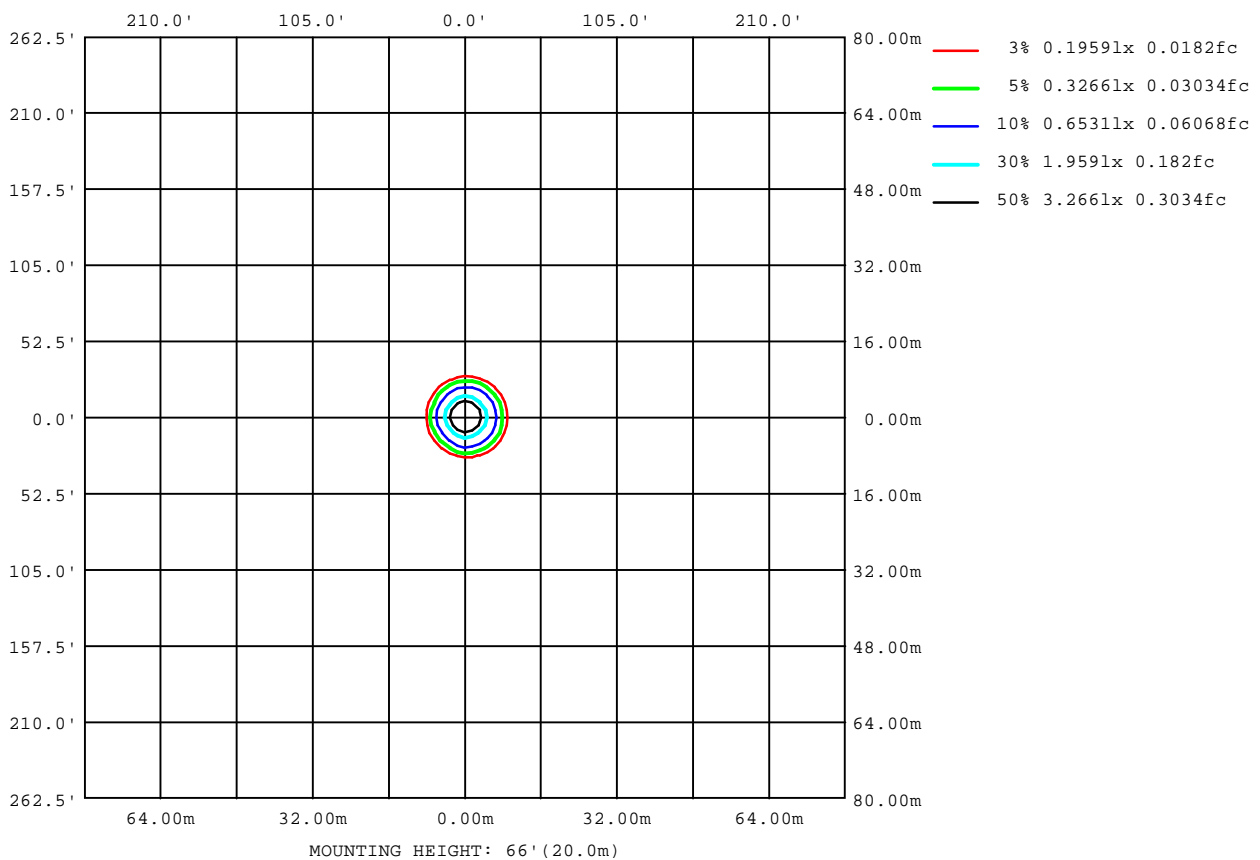
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-19

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-1084 15R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up



ISOLUX DIAGRAM

Test:U:220.22V I:0.0374A P:7.5416W PF:0.9121 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190922
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-1084 15R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.22V I:0.0374A P:7.5416W PF:0.9121 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190922
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

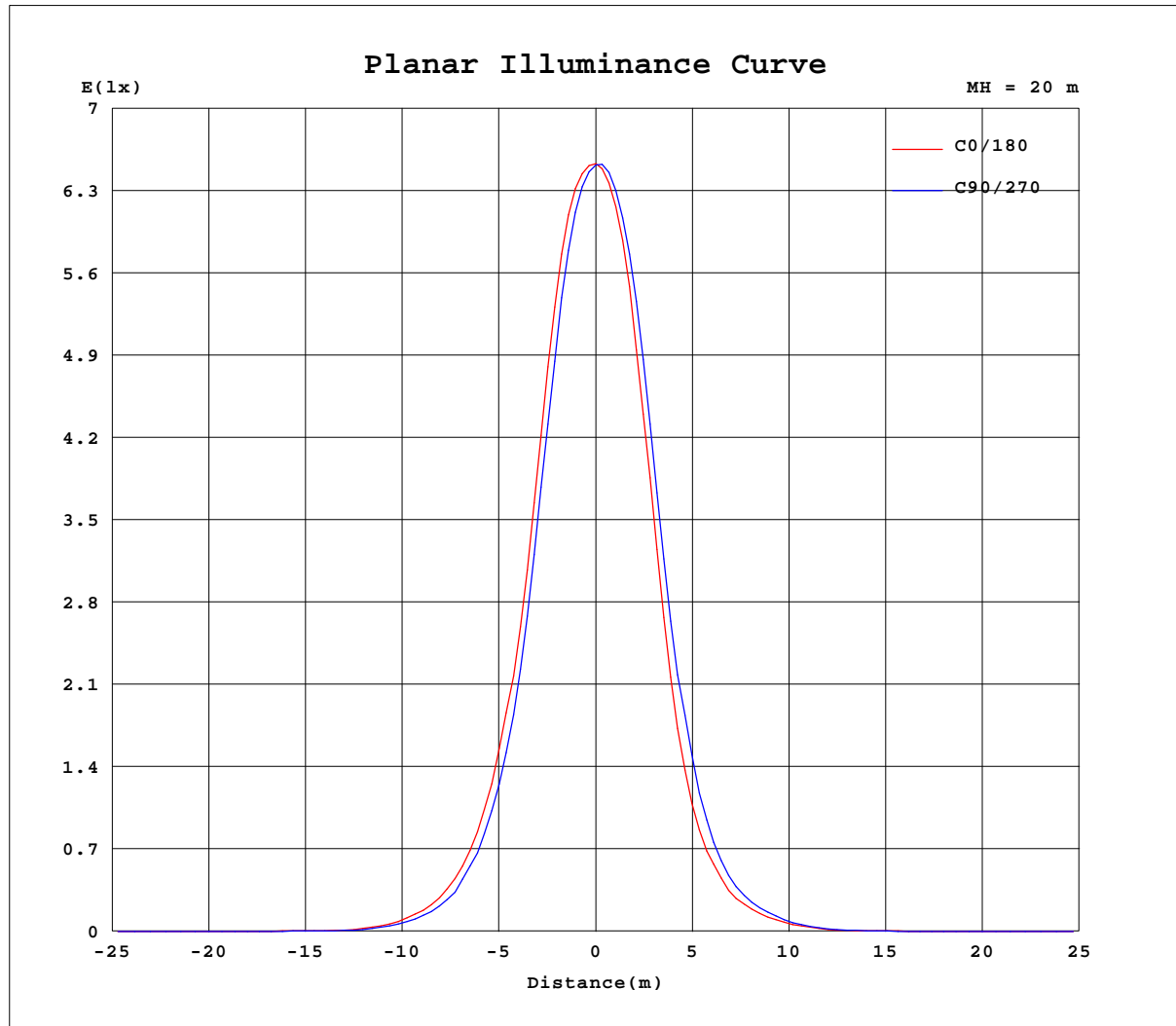
AvgL	cd/m2
L_0~180(65)av	1479
L_0~180(75)av	327
L_0~180(85)av	243
L_90~270(65)av	1627
L_90~270(75)av	397
L_90~270(85)av	430
L_45(65)av	1328
L_45(75)av	949
L_45(85)av	271

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
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-1084 15R
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

Beam Range: 0 - 180DEG
 Beam 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-1084 15R
 DRIVER: KEDH009S0350NR12A1 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.22V I:0.0374A P:7.5416W PF:0.9121 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190922
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	2608	2608	2608	2608	2608	2608	2608	2608	2608	2608	2608	2608						
5	2328	2290	2215	2181	2136	2128	2218	2249	2300	2332	2373	2387						
10	1287	1233	1130	1125	1042	1013	1118	1163	1273	1328	1350	1361						
15	558	512	457	457	382	349	383	392	452	522	529	543						
20	217	211	178	162	139	133	138	142	163	185	215	210						
25	81.4	80.6	73.1	58.8	56.0	54.9	54.5	59.3	67.2	72.2	84.8	88.6						
30	23.6	29.1	25.8	18.8	20.6	21.0	18.1	21.9	24.7	19.9	30.0	32.1						
35	7.53	8.45	7.86	6.18	6.79	6.53	6.53	7.46	7.20	6.06	8.05	9.39						
40	4.51	3.55	3.19	3.71	2.98	3.07	3.37	3.16	2.97	3.14	3.17	3.59						
45	2.93	2.24	2.03	2.78	1.89	1.83	2.07	1.79	1.69	1.88	1.84	2.18						
50	2.03	1.61	1.51	2.14	1.42	1.35	1.54	1.33	1.26	1.39	1.29	1.54						
55	1.56	1.23	1.20	1.48	1.16	1.08	1.22	1.05	1.02	1.15	1.04	1.17						
60	1.23	1.01	1.00	1.20	0.97	0.91	1.01	0.90	0.93	1.06	0.91	0.98						
65	1.10	0.95	0.93	1.12	0.88	0.83	0.90	0.89	0.97	1.09	0.94	0.94						
70	1.02	0.85	0.79	0.99	0.74	0.69	0.82	0.82	0.99	1.26	0.98	0.93						
75	0.14	0.50	0.39	0.22	0.18	0.17	0.13	0.18	0.39	0.11	0.55	0.56						
80	0.08	0.12	0.22	0.14	0.17	0.10	0.07	0.06	0.05	0.06	0.06	0.06						
85	0.04	0.06	0.07	0.09	0.06	0.04	0.03	0.02	0.02	0.03	0.02	0.03						
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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