

Luminaire Photograph



Light Output Ratio:	64.5%	
Luminaire Power:	7.552 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: 2022-9-17

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

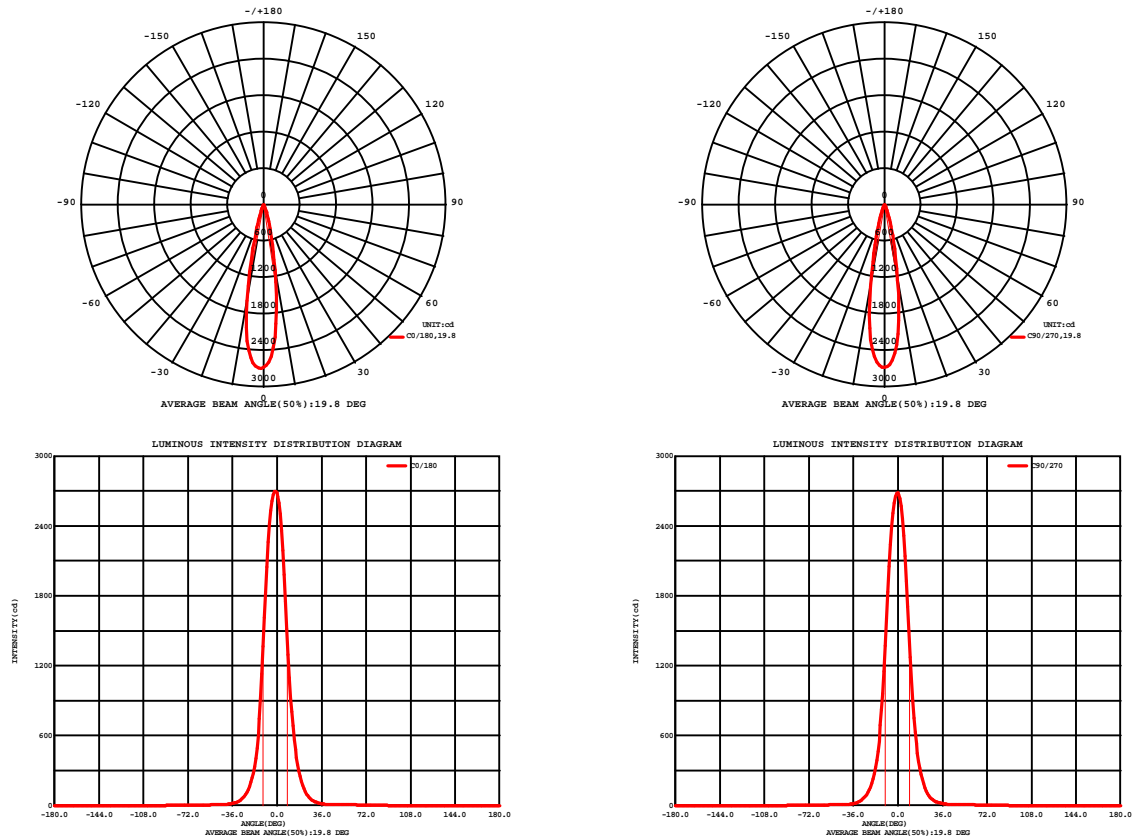


Fig. C0/C180

Fig. C90/C270

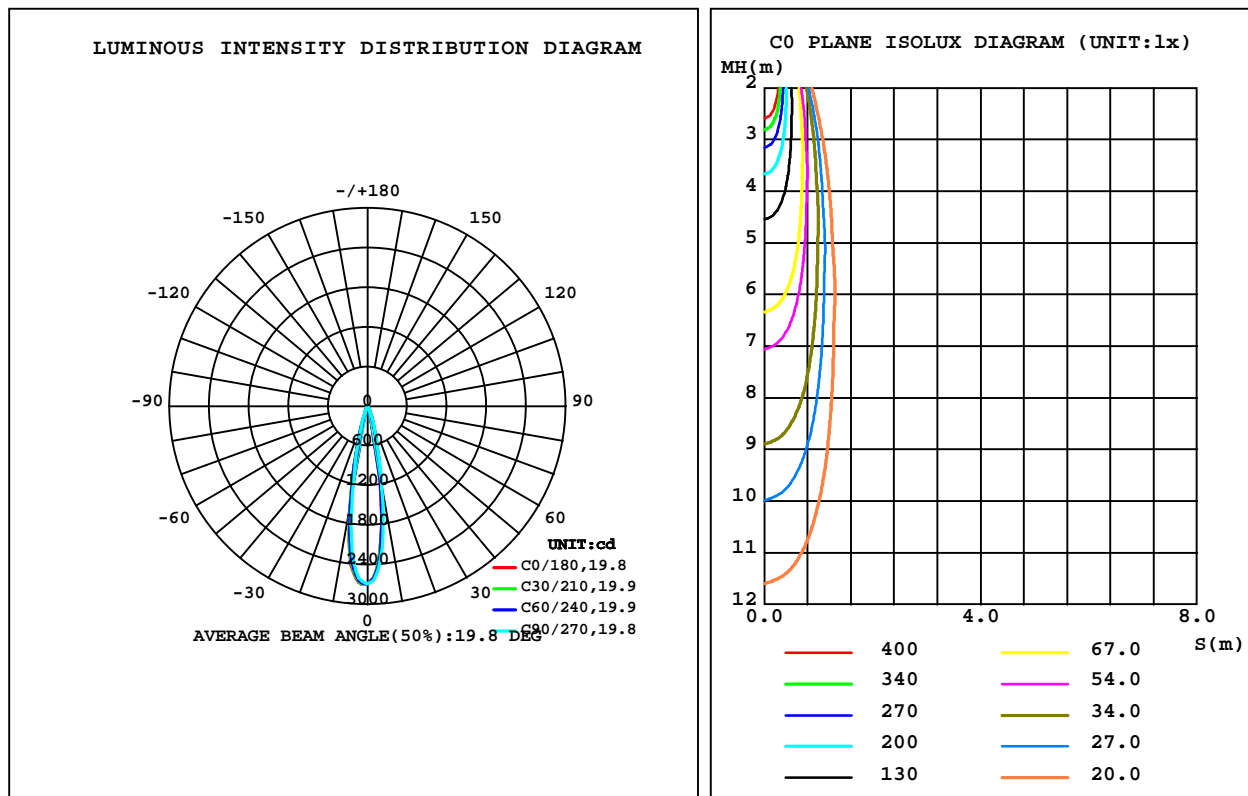
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.23V I:0.0374A P:7.5517W PF:0.9116 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170914
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.66 lm/W			
MODEL	CREE	I _{max} (cd)	2698	S/MH(C0/180)	0.36
NOMINAL POWER(W)	7	LOR(%)	64.5	S/MH(C90/270)	0.34
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	427.90	h UP,DN(C0-180)	0.0,31.0
NOMINAL FLUX(lm)	663.403	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,33.5
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	h down(%)	64.5	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%
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Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
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30minutes warm-up

ZONAL FLUX DIAGRAM

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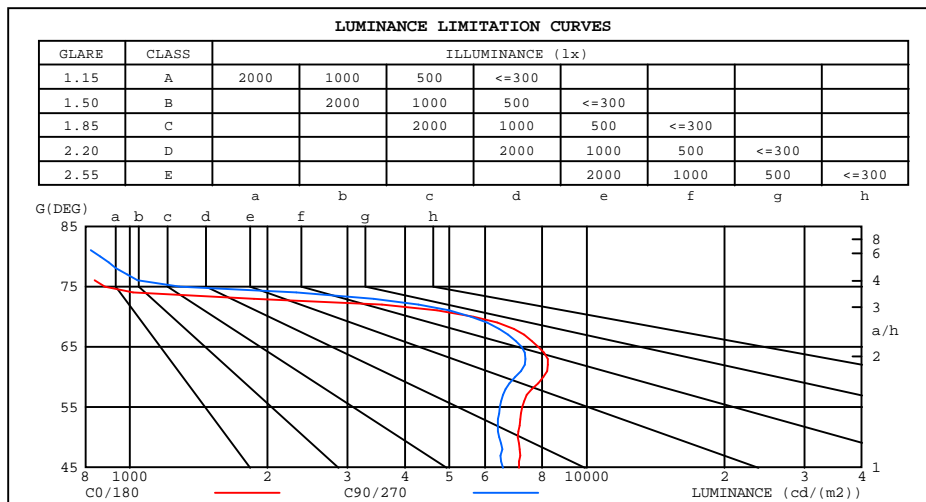
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1095	1141	1271	1398	1613	1557	1368	1223	0- 10	190.1	190.1	44.4,28.7
20	208.5	213.2	230.1	229.0	237.0	237.4	229.0	219.9	10- 20	161.1	351.2	82.1,52.9
30	36.71	38.93	37.57	39.92	41.26	41.99	39.86	41.62	20- 30	45.82	397.0	92.8,59.8
40	9.888	11.62	10.06	11.52	10.64	11.53	9.800	11.59	30- 40	13.54	410.6	96,61.9
50	7.252	6.898	6.629	6.153	5.874	6.034	6.210	6.733	40- 50	6.044	416.6	97.4,62.8
60	6.418	6.245	5.586	5.336	4.845	5.102	5.244	5.919	50- 60	5.406	422.0	98.6,63.6
70	3.080	3.626	3.057	3.137	2.675	2.721	2.332	3.107	60- 70	4.582	426.6	99.7,64.3
80	0.1911	0.2164	0.2398	0.2654	0.2664	0.2428	0.2070	0.1941	70- 80	1.182	427.8	100,64.5
90	0	0	0	0	0	0	0	0	80- 90	0.1042	427.9	100,64.5
100	0	0	0	0	0	0	0	0	90-100	0	427.9	100,64.5
110	0	0	0	0	0	0	0	0	100-110	0	427.9	100,64.5
120	0	0	0	0	0	0	0	0	110-120	0	427.9	100,64.5
130	0	0	0	0	0	0	0	0	120-130	0	427.9	100,64.5
140	0	0	0	0	0	0	0	0	130-140	0	427.9	100,64.5
150	0	0	0	0	0	0	0	0	140-150	0	427.9	100,64.5
160	0	0	0	0	0	0	0	0	150-160	0	427.9	100,64.5
170	0	0	0	0	0	0	0	0	160-170	0	427.9	100,64.5
180	0	0	0	0	0	0	0	0	170-180	0	427.9	100,64.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.23V I:0.0374A P:7.5517W PF:0.9116 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170914
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



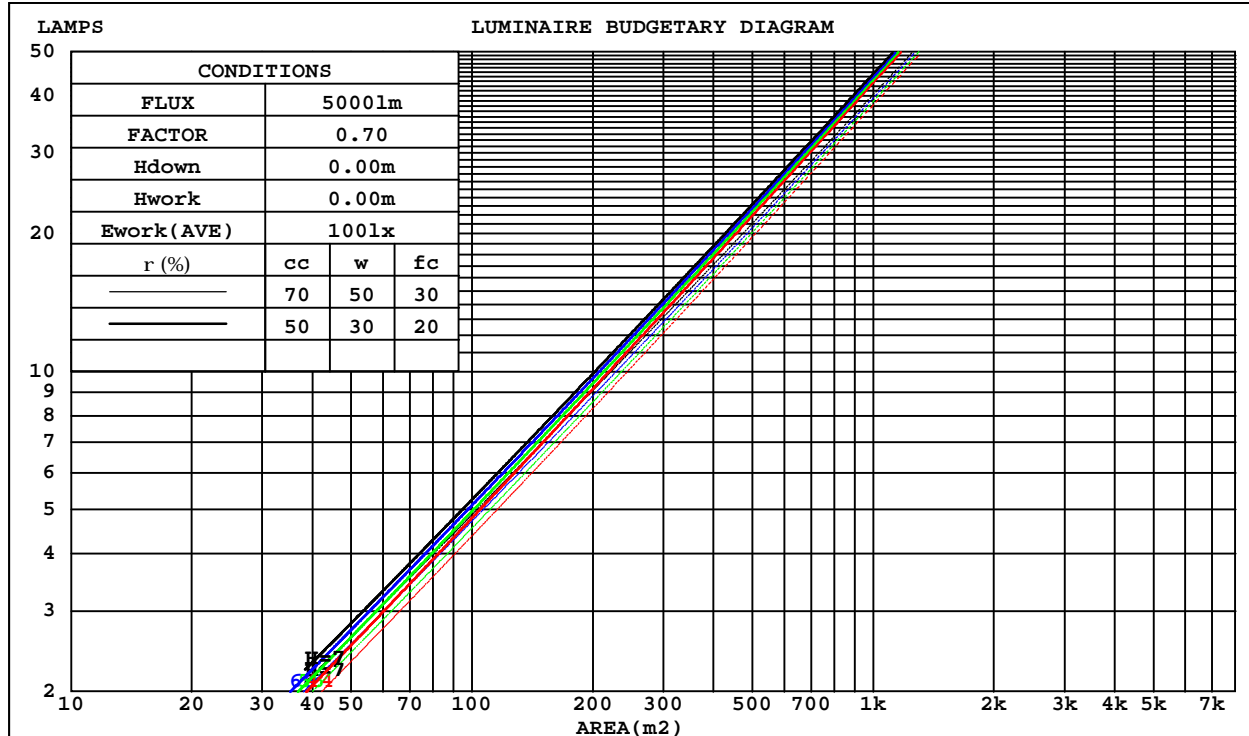
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2209170914
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
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.77	.77	.77	.75	.75	.75	.72	.72	.72	.69	.69	.69	.66	.66	.66	.65
1.0	.73	.72	.70	.71	.70	.69	.69	.68	.67	.67	.66	.65	.64	.64	.63	.62
2.0	.69	.68	.66	.68	.67	.65	.66	.65	.64	.65	.63	.62	.63	.62	.61	.60
3.0	.67	.64	.62	.66	.64	.62	.64	.62	.61	.63	.61	.60	.61	.60	.59	.58
4.0	.64	.62	.60	.63	.61	.59	.62	.60	.59	.61	.59	.58	.60	.58	.57	.57
5.0	.62	.59	.57	.61	.59	.57	.60	.58	.57	.59	.58	.56	.58	.57	.56	.55
6.0	.60	.57	.55	.60	.57	.55	.59	.57	.55	.58	.56	.55	.57	.56	.54	.54
7.0	.58	.56	.54	.58	.55	.54	.57	.55	.53	.57	.55	.53	.56	.54	.53	.52
8.0	.57	.54	.52	.56	.54	.52	.56	.54	.52	.55	.53	.52	.55	.53	.52	.51
9.0	.55	.53	.51	.55	.53	.51	.54	.52	.51	.54	.52	.51	.54	.52	.51	.50
10.0	.54	.51	.50	.54	.51	.50	.53	.51	.50	.53	.51	.50	.53	.51	.49	.49



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30minutes warm-up

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2209170914
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	.088	.050	.016	.084	.048	.015	.076	.044	.014	.069	.040	.013	.062	.036	.012	
2.0	.082	.045	.014	.078	.043	.013	.071	.040	.012	.065	.037	.011	.060	.034	.011	
3.0	.076	.040	.012	.073	.039	.012	.067	.036	.011	.062	.034	.010	.057	.032	.010	
4.0	.070	.037	.011	.068	.036	.011	.063	.034	.010	.059	.032	.010	.055	.030	.009	
5.0	.066	.034	.010	.064	.033	.010	.060	.031	.009	.056	.030	.009	.053	.028	.008	
6.0	.062	.031	.009	.060	.030	.009	.057	.029	.008	.054	.028	.008	.051	.027	.008	
7.0	.059	.029	.008	.057	.028	.008	.054	.027	.008	.051	.026	.008	.049	.025	.007	
8.0	.055	.027	.008	.054	.027	.008	.052	.026	.007	.049	.025	.007	.047	.024	.007	
9.0	.053	.026	.007	.052	.025	.007	.049	.024	.007	.047	.024	.007	.045	.023	.007	
10.0	.050	.024	.007	.049	.024	.007	.047	.023	.007	.045	.023	.006	.044	.022	.006	

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	.123	.123	.123	.105	.105	.105	.072	.072	.072	.041	.041	.041	.013	.013	.013	
1.0	.109	.102	.096	.093	.087	.082	.064	.060	.057	.037	.035	.033	.012	.011	.011	
2.0	.097	.086	.076	.083	.074	.066	.057	.051	.046	.033	.030	.027	.011	.010	.009	
3.0	.087	.073	.062	.075	.063	.054	.051	.044	.038	.030	.026	.022	.010	.008	.007	
4.0	.079	.063	.051	.068	.055	.044	.047	.038	.031	.027	.022	.018	.009	.007	.006	
5.0	.072	.055	.043	.062	.048	.037	.043	.033	.026	.025	.020	.016	.008	.006	.005	
6.0	.066	.049	.036	.057	.042	.031	.039	.029	.022	.023	.017	.013	.007	.006	.004	
7.0	.061	.043	.031	.052	.038	.027	.036	.026	.019	.021	.016	.011	.007	.005	.004	
8.0	.057	.039	.027	.049	.034	.023	.034	.024	.017	.020	.014	.010	.006	.005	.003	
9.0	.053	.035	.023	.046	.031	.020	.032	.021	.014	.018	.013	.009	.006	.004	.003	
10.0	.050	.032	.020	.043	.028	.018	.030	.020	.013	.017	.012	.008	.006	.004	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2209170914		
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	12.3	12.9	12.5	13.0	13.2	11.9	12.5	12.1	12.6	12.8
3H	13.7	14.3	13.9	14.5	14.7	13.3	13.9	13.5	14.0	14.2
4H	13.7	14.2	13.9	14.5	14.7	13.3	13.9	13.6	14.1	14.3
6H	13.6	14.1	13.9	14.4	14.6	13.3	13.8	13.6	14.0	14.3
8H	13.6	14.1	13.9	14.3	14.6	13.2	13.8	13.5	14.0	14.3
12H	13.5	14.0	13.8	14.3	14.5	13.2	13.7	13.5	14.0	14.2
4H 2H	13.0	13.6	13.3	13.8	14.0	12.7	13.3	13.0	13.5	13.7
3H	14.5	15.0	14.8	15.3	15.5	14.1	14.6	14.4	14.9	15.2
4H	14.5	14.9	14.8	15.2	15.5	14.2	14.7	14.5	15.0	15.3
6H	14.4	14.8	14.8	15.1	15.5	14.1	14.5	14.5	14.9	15.2
8H	14.3	14.7	14.7	15.1	15.4	14.1	14.5	14.5	14.8	15.2
12H	14.3	14.6	14.7	15.0	15.4	14.0	14.4	14.4	14.7	15.1
8H 4H	14.5	14.8	14.8	15.2	15.5	14.2	14.6	14.6	14.9	15.3
6H	14.4	14.7	14.8	15.1	15.5	14.1	14.4	14.5	14.8	15.2
8H	14.3	14.6	14.7	15.0	15.4	14.1	14.3	14.5	14.8	15.2
12H	14.2	14.5	14.7	14.9	15.4	14.0	14.2	14.5	14.7	15.2
12H 4H	14.4	14.8	14.8	15.1	15.5	14.1	14.5	14.5	14.9	15.2
6H	14.3	14.6	14.7	15.0	15.4	14.0	14.3	14.5	14.7	15.2
8H	14.2	14.5	14.7	14.9	15.4	14.0	14.2	14.5	14.7	15.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.5					+ 0.4 / - 0.6				
1.5H	+ 0.5 / - 0.5					+ 0.6 / - 0.5				
2.0H	+ 0.9 / - 1.0					+ 0.7 / - 0.8				

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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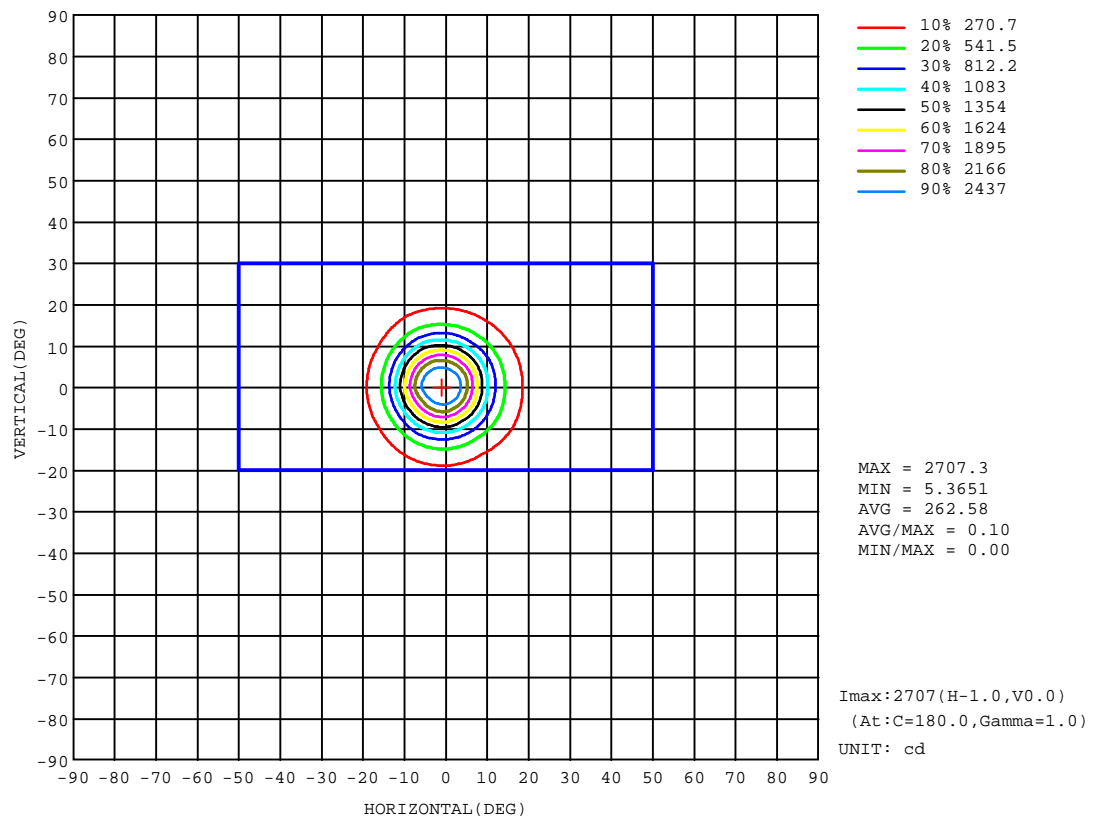
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	54	51	57	53	51	57	53	51	49
0.80	62	58	56	62	58	56	61	58	56	54
1.00	65	61	59	64	61	59	63	61	58	56
1.25	67	64	62	66	63	61	65	63	61	58
1.50	69	66	64	68	65	63	67	64	63	60
2.00	70	68	66	69	67	65	68	66	64	61
2.50	71	69	67	70	68	67	68	67	65	62
3.00	72	70	68	71	69	68	69	68	66	62
4.00	74	72	71	72	71	70	70	69	68	63
5.00	74	73	72	73	72	71	71	70	69	64
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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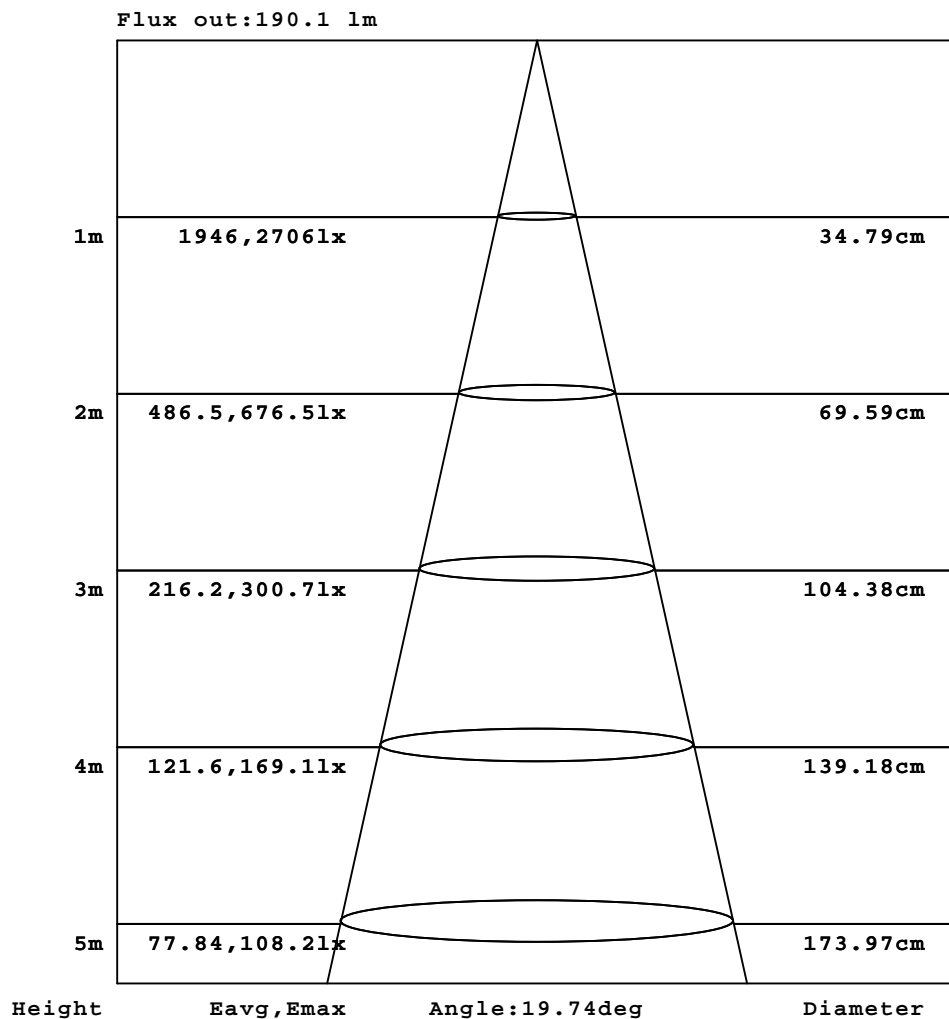


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AAI Figure

Test:U:220.23V I:0.0374A P:7.5517W PF:0.9116 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170914
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



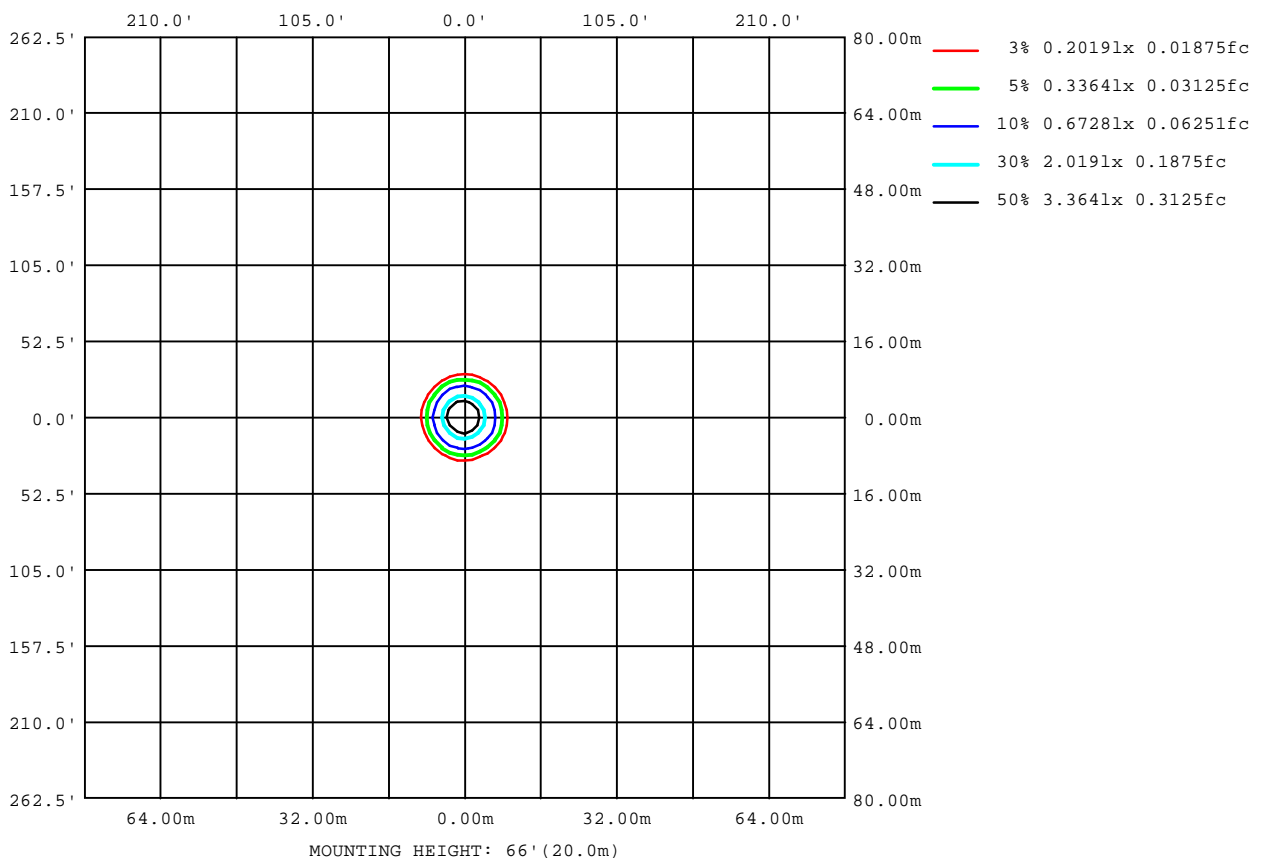
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-17

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:220.23V I:0.0374A P:7.5517W PF:0.9116 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170914
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:2022-9-17

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:220.23V I:0.0374A P:7.5517W PF:0.9116 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170914
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

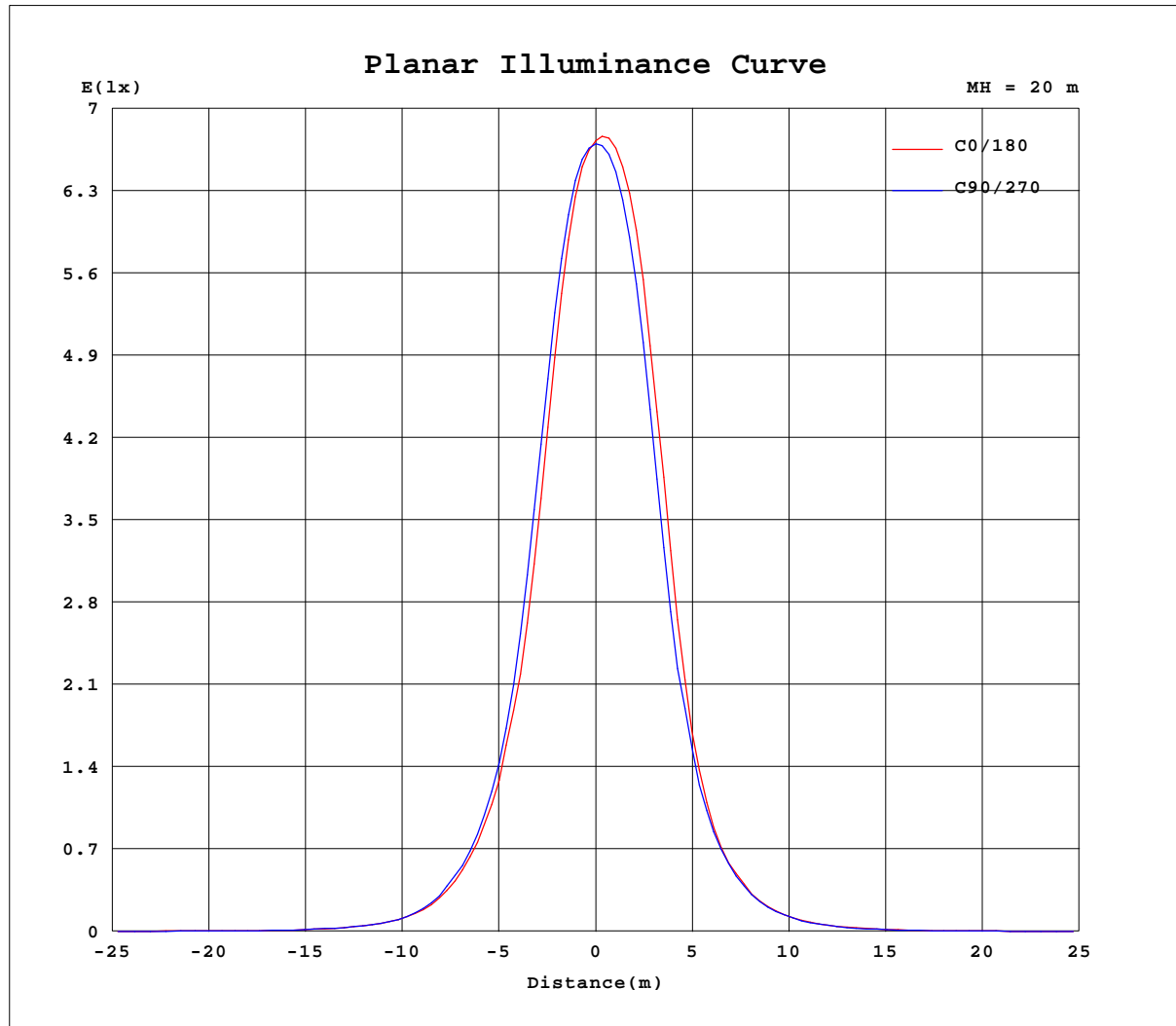
AvgL	cd/m2
L_0~180(65)av	6948
L_0~180(75)av	1116
L_0~180(85)av	670
L_90~270(65)av	6663
L_90~270(75)av	1132
L_90~270(85)av	639
L_45(65)av	7328
L_45(75)av	2337
L_45(85)av	605

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-17

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

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2022-9-17

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 DISTRIBUTION INTENSITY DATA

Test:U:220.23V I:0.0374A P:7.5517W PF:0.9116 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170914
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	2682	2682	2682	2682	2682	2682	2682	2682	2682	2682	2682	2682						
5	2188	2203	2228	2317	2372	2432	2532	2511	2465	2391	2323	2267						
10	1095	1127	1156	1271	1353	1443	1613	1583	1530	1368	1262	1184						
15	480	496	487	531	556	562	608	633	615	553	511	501						
20	208	226	200	230	232	226	237	222	253	229	223	216						
25	83.9	87.4	85.9	85.9	91.3	90.9	94.7	93.3	97.5	92.3	92.8	88.7						
30	36.7	39.0	38.9	37.6	38.9	40.9	41.3	41.6	42.4	39.9	42.2	41.0						
35	18.4	20.9	21.0	19.3	20.2	21.5	20.6	21.3	21.4	18.8	22.0	21.6						
40	9.89	11.3	11.9	10.1	11.3	11.8	10.6	11.8	11.2	9.80	11.4	11.8						
45	8.03	7.58	7.64	7.42	7.20	7.25	7.10	7.26	7.04	7.14	7.27	7.70						
50	7.25	7.05	6.75	6.63	6.32	5.99	5.87	5.97	6.10	6.21	6.47	6.99						
55	6.62	6.85	6.54	5.94	6.04	5.59	5.31	5.50	5.67	5.63	6.09	6.80						
60	6.42	6.40	6.09	5.59	5.50	5.17	4.84	5.01	5.19	5.24	5.62	6.22						
65	5.27	5.70	5.38	4.87	4.91	4.50	4.13	4.26	4.40	4.14	4.74	5.45						
70	3.08	3.79	3.46	3.06	3.30	2.98	2.67	2.75	2.69	2.33	2.83	3.39						
75	0.36	0.88	1.10	0.53	1.12	1.14	0.56	0.95	0.81	0.40	0.57	0.73						
80	0.19	0.21	0.23	0.24	0.26	0.27	0.27	0.25	0.23	0.21	0.20	0.19						
85	0.07	0.08	0.09	0.10	0.10	0.11	0.11	0.09	0.08	0.08	0.07	0.07						
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						

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C Interval: 30.0DEG
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