

Luminaire Photograph



Light Output Ratio:	78.5%	
Luminaire Power:	7.545 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	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-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

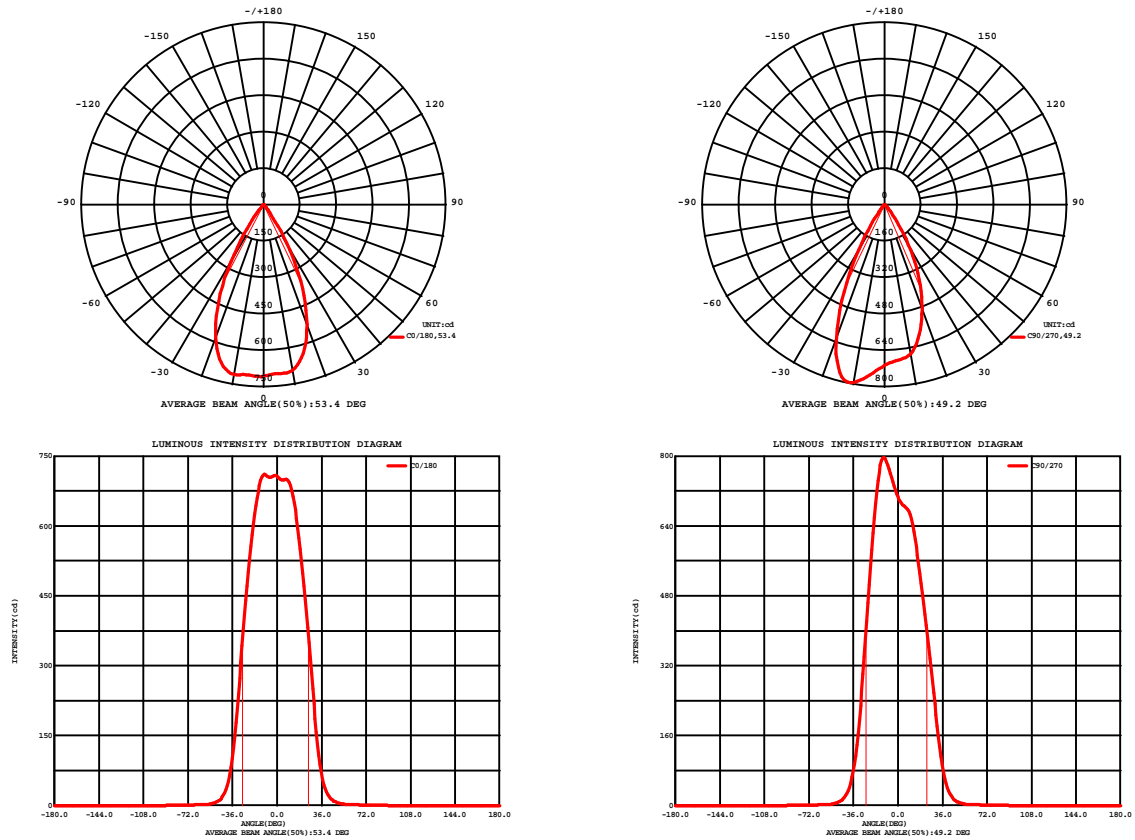


Fig. C0/C180

Fig. C90/C270

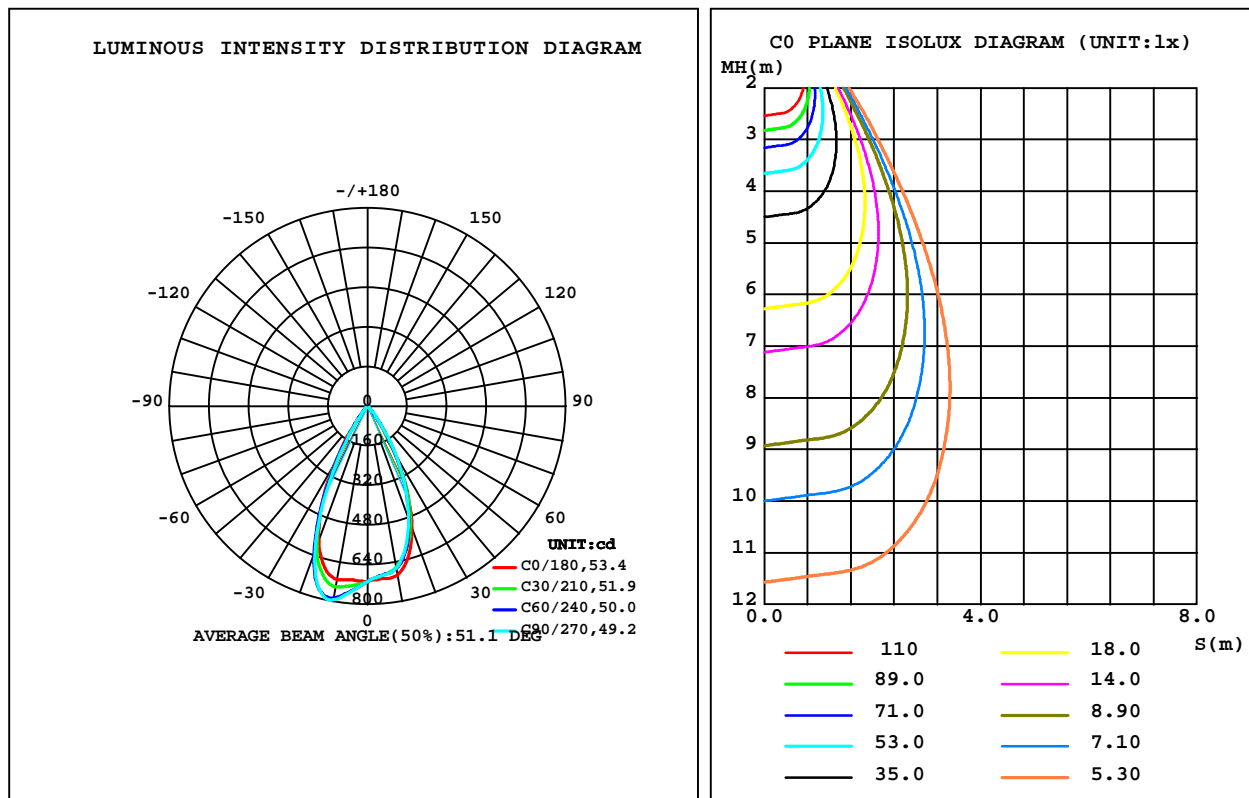
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.22V I:0.0374A P:7.5452W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170917
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.98 lm/W			
MODEL	CREE	I _{max} (cd)	796.6	S/MH(C0/180)	0.82
NOMINAL POWER(W)	7	LOR(%)	78.5	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	520.48	h UP,DN(C0-180)	0.0,37.2
NOMINAL FLUX(lm)	663.403	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,41.2
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	h down(%)	78.5	CIBSE SHR MAX	0.80



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Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
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ZONAL FLUX DIAGRAM

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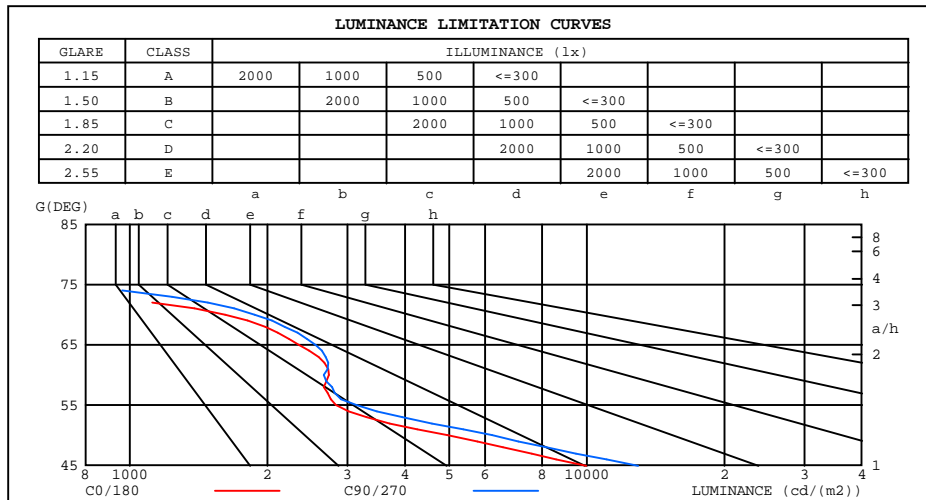
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	692.9	664.6	665.5	671.4	710.4	762.7	793.0	742.9	0- 10	67.87	67.87	13,10.2
20	524.1	499.3	485.3	527.6	580.8	620.1	623.7	583.2	10- 20	183.1	251.0	48.2,37.8
30	217.6	228.0	232.5	256.6	273.0	252.4	227.7	227.7	20- 30	181.3	432.3	83.1,65.2
40	28.96	33.86	40.24	41.08	41.57	38.64	33.51	31.27	30- 40	70.89	503.2	96.7,75.8
50	5.079	6.330	6.393	6.632	6.168	6.679	5.382	6.080	40- 50	12.11	515.3	99,77.7
60	2.175	2.423	2.130	2.239	1.922	2.095	1.920	2.174	50- 60	3.117	518.4	99.6,78.1
70	0.8818	1.153	1.025	1.125	0.9171	0.9677	0.7464	0.9572	60- 70	1.628	520.0	99.9,78.4
80	0.0767	0.0822	0.0918	0.0995	0.0996	0.0887	0.0788	0.0747	70- 80	0.4114	520.4	100,78.4
90	0	0	0	0	0	0	0	0	80- 90	0.0407	520.5	100,78.5
100	0	0	0	0	0	0	0	0	90-100	0	520.5	100,78.5
110	0	0	0	0	0	0	0	0	100-110	0	520.5	100,78.5
120	0	0	0	0	0	0	0	0	110-120	0	520.5	100,78.5
130	0	0	0	0	0	0	0	0	120-130	0	520.5	100,78.5
140	0	0	0	0	0	0	0	0	130-140	0	520.5	100,78.5
150	0	0	0	0	0	0	0	0	140-150	0	520.5	100,78.5
160	0	0	0	0	0	0	0	0	150-160	0	520.5	100,78.5
170	0	0	0	0	0	0	0	0	160-170	0	520.5	100,78.5
180	0	0	0	0	0	0	0	0	170-180	0	520.5	100,78.5
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.:2209170917
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	219	284
80	277	330
75	348	579
70	1616	1875
65	2346	2551
60	2726	2664
55	2829	3137
50	4953	6220
45	9977	12939

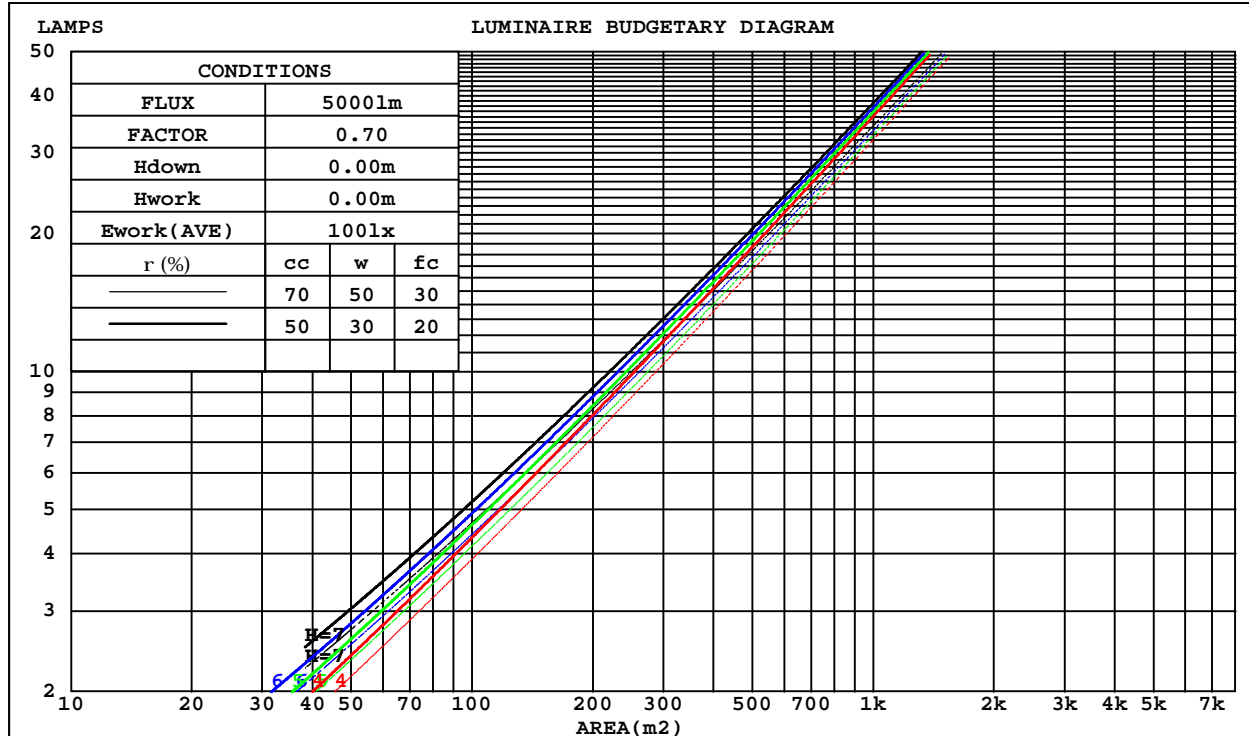
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.93	.93	.93	.91	.91	.91	.87	.87	.87	.83	.83	.83	.80	.80	.80	.78
1.0	.87	.86	.84	.86	.84	.83	.83	.81	.80	.80	.79	.78	.77	.76	.75	.74
2.0	.82	.79	.77	.81	.78	.76	.78	.76	.74	.76	.74	.72	.74	.72	.71	.70
3.0	.77	.73	.71	.76	.73	.70	.74	.71	.69	.72	.70	.68	.70	.68	.67	.66
4.0	.73	.69	.66	.72	.68	.65	.70	.67	.64	.68	.66	.64	.67	.65	.63	.62
5.0	.68	.64	.61	.68	.64	.61	.66	.63	.60	.65	.62	.60	.64	.61	.59	.58
6.0	.65	.60	.57	.64	.60	.57	.63	.59	.57	.62	.59	.56	.61	.58	.56	.55
7.0	.61	.57	.54	.61	.57	.54	.60	.56	.54	.59	.56	.53	.58	.55	.53	.52
8.0	.58	.54	.51	.58	.54	.51	.57	.53	.51	.56	.53	.51	.56	.53	.50	.49
9.0	.55	.51	.48	.55	.51	.48	.54	.51	.48	.54	.50	.48	.53	.50	.48	.47
10.0	.53	.49	.46	.52	.48	.46	.52	.48	.46	.51	.48	.46	.51	.48	.45	.44



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WEC AND CCEC

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NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170917
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	.130	.074	.023	.125	.071	.023	.115	.066	.021	.106	.061	.020	.098	.057	.018	
2.0	.124	.068	.021	.119	.066	.020	.111	.062	.019	.104	.058	.018	.097	.055	.017	
3.0	.118	.063	.019	.114	.061	.018	.107	.058	.018	.100	.055	.017	.094	.052	.016	
4.0	.112	.058	.017	.109	.057	.017	.103	.054	.016	.097	.052	.016	.092	.050	.015	
5.0	.106	.054	.016	.104	.053	.016	.099	.051	.015	.094	.049	.015	.089	.048	.014	
6.0	.102	.051	.015	.099	.050	.014	.095	.049	.014	.090	.047	.014	.086	.046	.014	
7.0	.097	.048	.014	.095	.047	.014	.091	.046	.013	.087	.045	.013	.084	.044	.013	
8.0	.093	.046	.013	.091	.045	.013	.088	.044	.013	.084	.043	.012	.081	.042	.012	
9.0	.089	.043	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.012	
10.0	.086	.041	.011	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	

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	.149	.149	.149	.128	.128	.128	.087	.087	.087	.050	.050	.050	.016	.016	.016	
1.0	.134	.123	.114	.114	.106	.098	.078	.073	.068	.045	.042	.040	.014	.014	.013	
2.0	.121	.104	.090	.104	.090	.077	.071	.062	.054	.041	.036	.032	.013	.012	.010	
3.0	.111	.089	.072	.095	.077	.062	.065	.053	.044	.038	.031	.026	.012	.010	.008	
4.0	.102	.077	.058	.088	.067	.051	.060	.047	.036	.035	.027	.021	.011	.009	.007	
5.0	.095	.068	.048	.082	.059	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
6.0	.089	.061	.040	.077	.053	.035	.053	.037	.025	.031	.022	.015	.010	.007	.005	
7.0	.084	.055	.034	.072	.047	.030	.050	.033	.021	.029	.020	.013	.009	.006	.004	
8.0	.080	.050	.029	.068	.043	.025	.047	.030	.018	.028	.018	.011	.009	.006	.004	
9.0	.076	.046	.025	.065	.040	.022	.045	.028	.016	.026	.016	.009	.009	.005	.003	
10.0	.072	.042	.022	.062	.037	.019	.043	.026	.014	.025	.015	.008	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2209170917		
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	16.5	17.4	16.7	17.6	17.7	17.4	18.3	17.6	18.4	18.6
	3H	16.4	17.2	16.7	17.4	17.6	17.3	18.1	17.5	18.3
	4H	16.3	17.1	16.6	17.3	17.5	17.2	17.9	17.5	18.2
	6H	16.2	16.9	16.5	17.2	17.4	17.1	17.8	17.4	18.1
	8H	16.2	16.9	16.5	17.1	17.4	17.1	17.7	17.4	18.0
12H	16.1	16.8	16.5	17.1	17.3	17.0	17.7	17.3	17.9	18.2
4H	2H	16.3	17.1	16.6	17.3	17.5	17.2	17.9	17.4	18.1
	3H	16.2	16.8	16.5	17.1	17.4	17.0	17.7	17.4	18.0
	4H	16.1	16.7	16.4	17.0	17.3	17.0	17.6	17.3	17.9
	6H	16.0	16.5	16.4	16.9	17.2	16.9	17.4	17.2	17.7
	8H	16.0	16.4	16.3	16.8	17.2	16.8	17.3	17.2	17.6
12H	15.9	16.3	16.3	16.7	17.1	16.8	17.2	17.2	17.6	18.0
8H	4H	16.0	16.4	16.3	16.8	17.2	16.8	17.3	17.2	17.7
	6H	15.9	16.3	16.3	16.6	17.1	16.7	17.1	17.1	17.5
	8H	15.8	16.2	16.2	16.6	17.0	16.7	17.0	17.1	17.4
	12H	15.7	16.0	16.2	16.5	17.0	16.6	16.9	17.1	17.3
12H	4H	15.9	16.3	16.3	16.7	17.1	16.8	17.2	17.2	17.6
	6H	15.8	16.2	16.2	16.6	17.0	16.7	17.0	17.1	17.4
	8H	15.7	16.0	16.2	16.5	17.0	16.6	16.9	17.1	17.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / - 7.9					+ 4.2 / - 9.0				
1.5H	+ 5.8 / - 6.7					+ 6.6 / - 7.4				
2.0H	+ 4.3 / - 2.6					+ 5.3 / - 3.3				

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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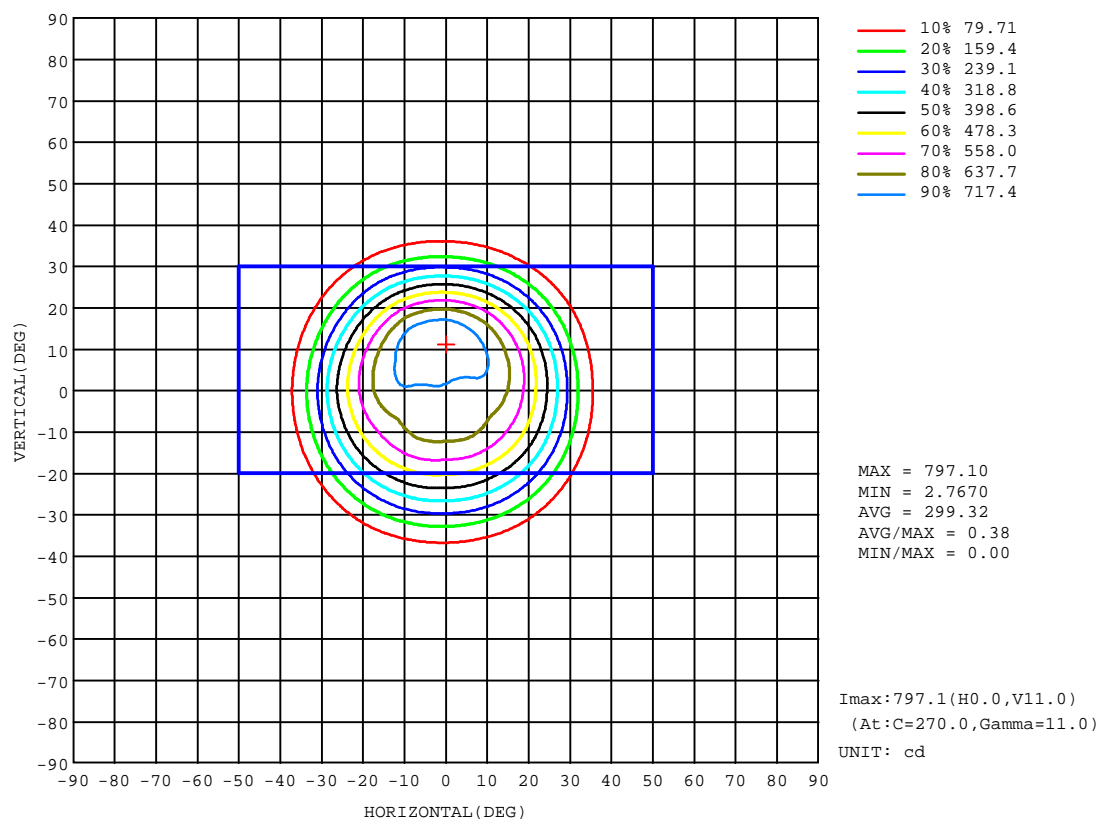
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	66	63	70	65	63	69	65	63	60
0.80	76	72	69	75	71	69	74	71	68	66
1.00	79	75	72	78	75	72	77	74	72	69
1.25	82	78	76	81	78	75	80	77	75	72
1.50	84	80	78	83	80	78	81	79	77	73
2.00	86	83	80	85	82	80	83	80	79	75
2.50	87	84	82	86	83	81	83	81	80	75
3.00	88	86	84	87	85	83	84	82	81	76
4.00	90	88	86	88	86	85	85	84	83	77
5.00	91	89	88	89	88	86	86	85	84	78
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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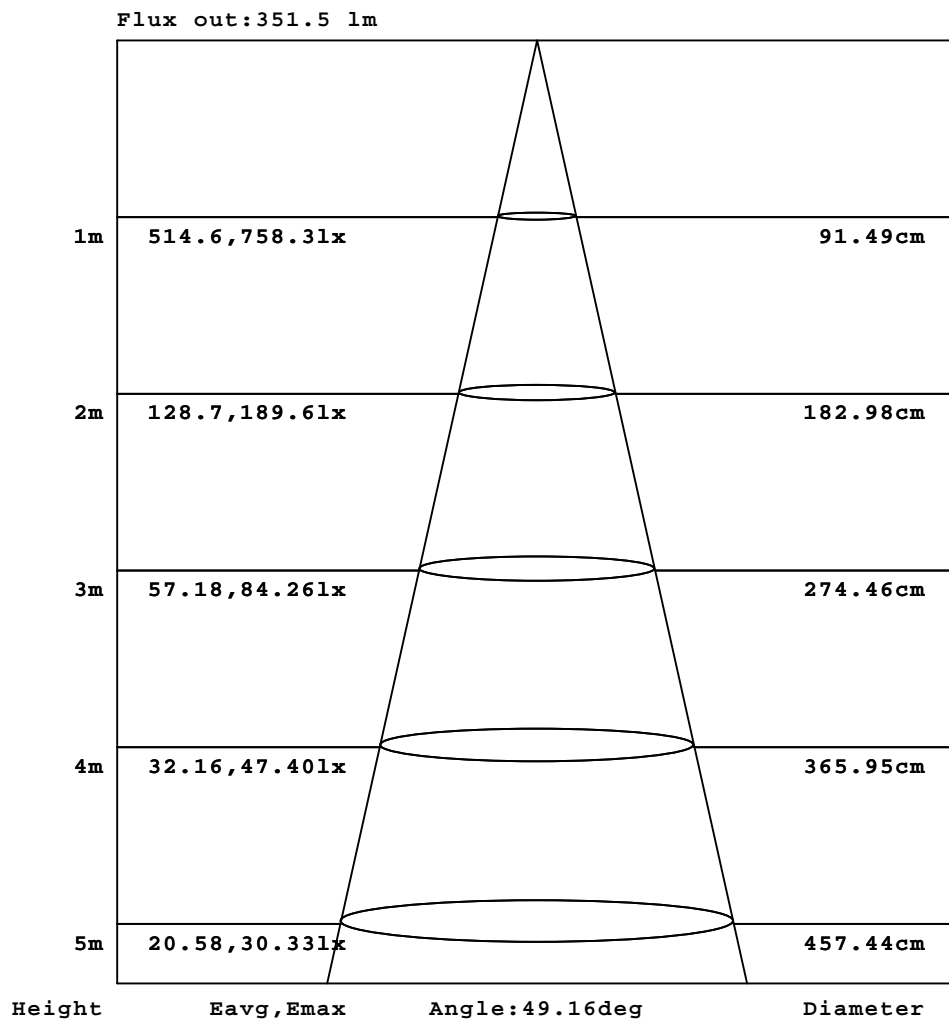


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DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

AAI Figure

Test:U:220.22V I:0.0374A P:7.5452W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170917
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



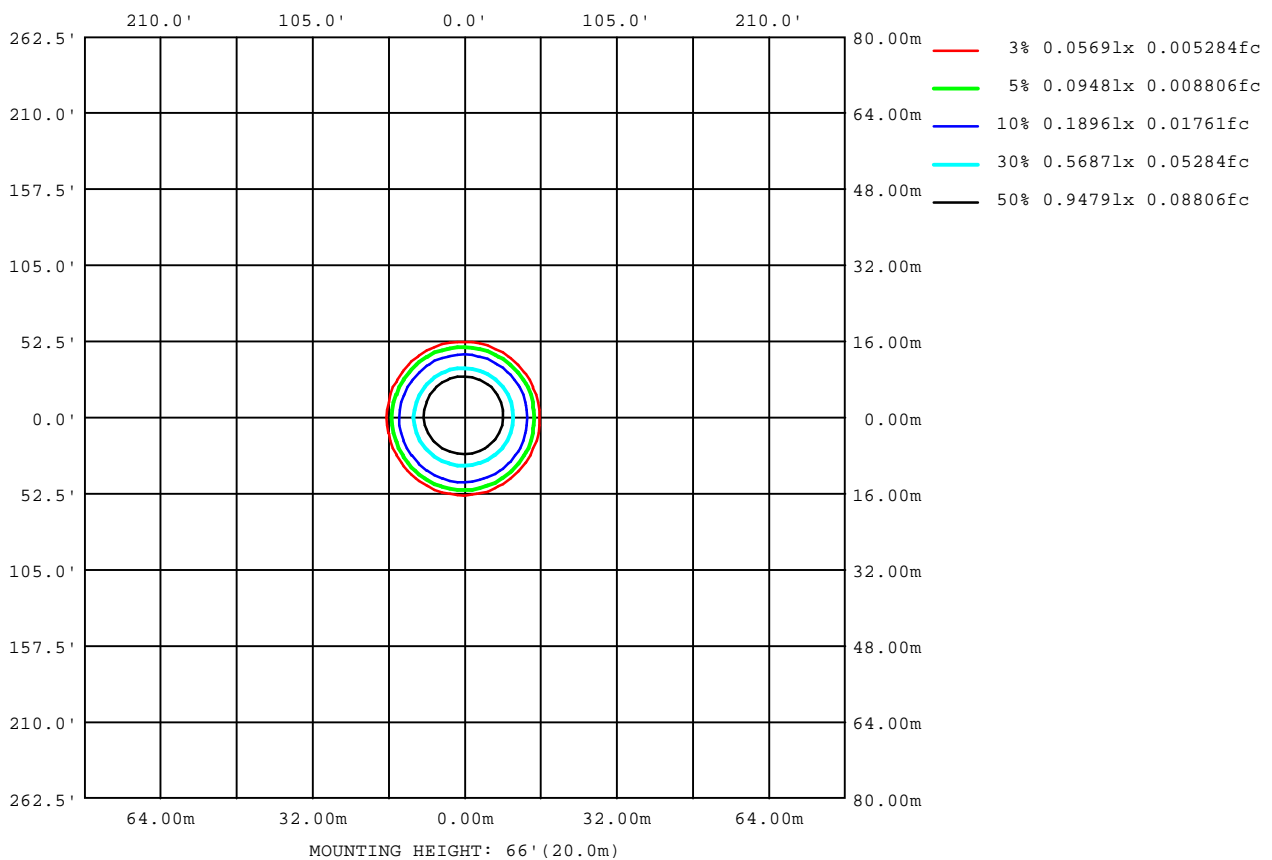
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.22V I:0.0374A P:7.5452W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170917
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-1084C 50R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.22V I:0.0374A P:7.5452W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170917
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

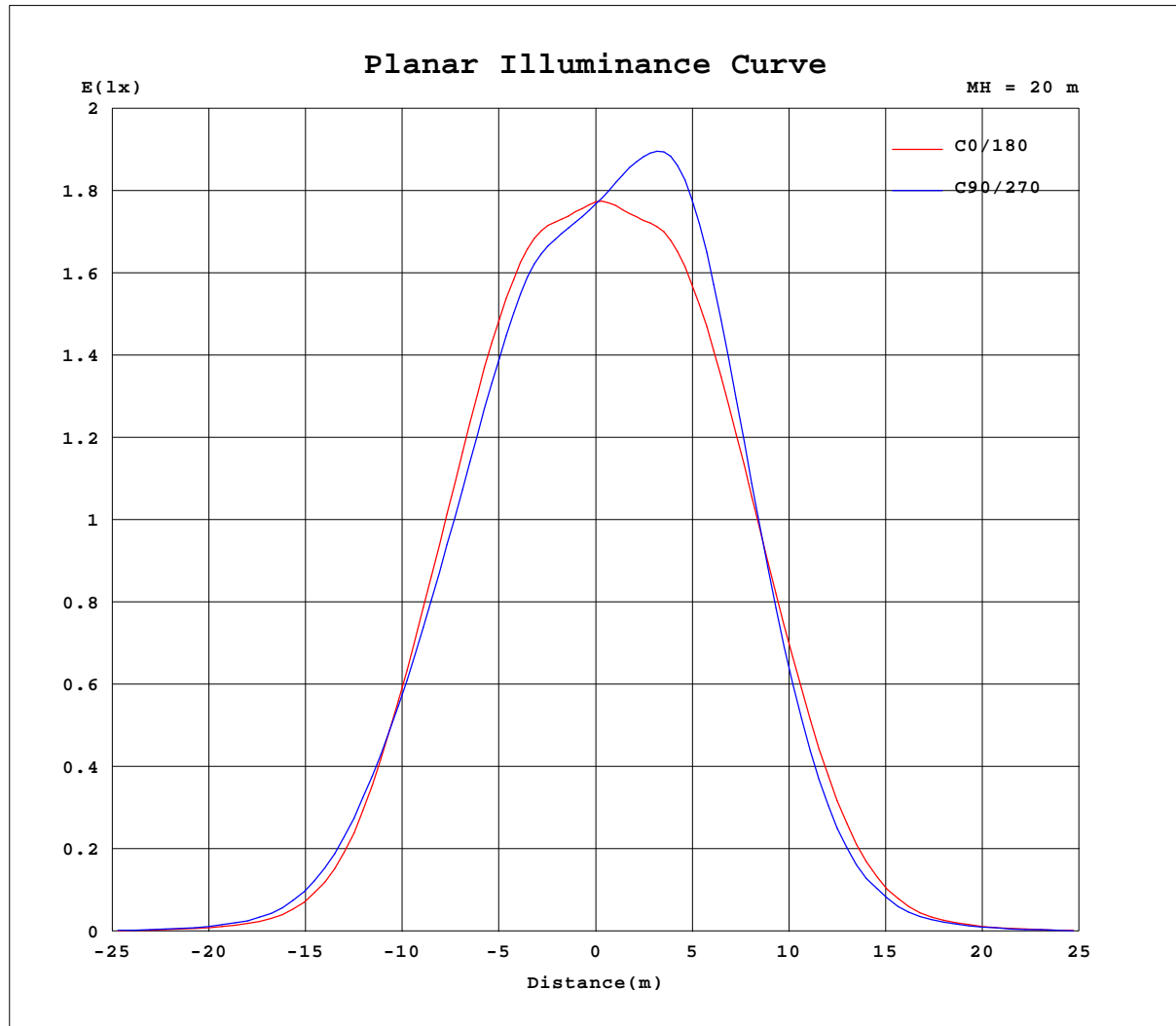
AvgL	cd/m2
L_0~180(65)av	2286
L_0~180(75)av	454
L_0~180(85)av	261
L_90~270(65)av	2306
L_90~270(75)av	471
L_90~270(85)av	255
L_45(65)av	2642
L_45(75)av	889
L_45(85)av	232

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-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: 2022-9-17

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:220.22V I:0.0374A P:7.5452W PF:0.9119 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.117-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209170917
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	707	707	707	707	707	707	707	707	707	707	707	707						
5	698	685	684	686	686	690	704	727	748	751	734	715						
10	693	661	668	666	670	673	710	741	785	793	756	730						
15	634	602	601	591	617	623	674	704	764	763	722	680						
20	524	508	490	485	513	543	581	602	638	624	603	564						
25	381	374	364	362	385	415	440	436	443	422	414	405						
30	218	226	230	232	250	263	273	255	250	228	228	227						
35	87.0	96.4	105	112	121	122	123	111	108	94.1	91.6	90.9						
40	29.0	32.2	35.5	40.2	41.0	41.1	41.6	38.9	38.3	33.5	31.7	30.9						
45	11.3	12.2	13.0	14.6	14.4	14.2	14.7	14.3	14.4	13.0	12.4	12.0						
50	5.08	6.17	6.49	6.39	6.78	6.48	6.17	6.74	6.62	5.38	6.04	6.11						
55	2.59	3.46	3.70	2.88	3.64	3.49	2.56	3.51	3.31	2.32	3.15	3.30						
60	2.17	2.40	2.45	2.13	2.30	2.18	1.92	2.11	2.08	1.92	2.11	2.24						
65	1.58	1.91	1.95	1.72	1.84	1.71	1.51	1.65	1.63	1.40	1.63	1.76						
70	0.88	1.13	1.18	1.03	1.18	1.07	0.92	0.99	0.95	0.75	0.90	1.01						
75	0.14	0.35	0.40	0.24	0.45	0.42	0.23	0.36	0.30	0.15	0.23	0.28						
80	0.08	0.08	0.08	0.09	0.10	0.10	0.10	0.09	0.09	0.08	0.08	0.07						
85	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	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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