

Luminaire Photograph



Light Output Ratio:	82.3%	
Luminaire Power:	9.253 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-03-17

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: CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER: PUP10A-1WMC-700 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

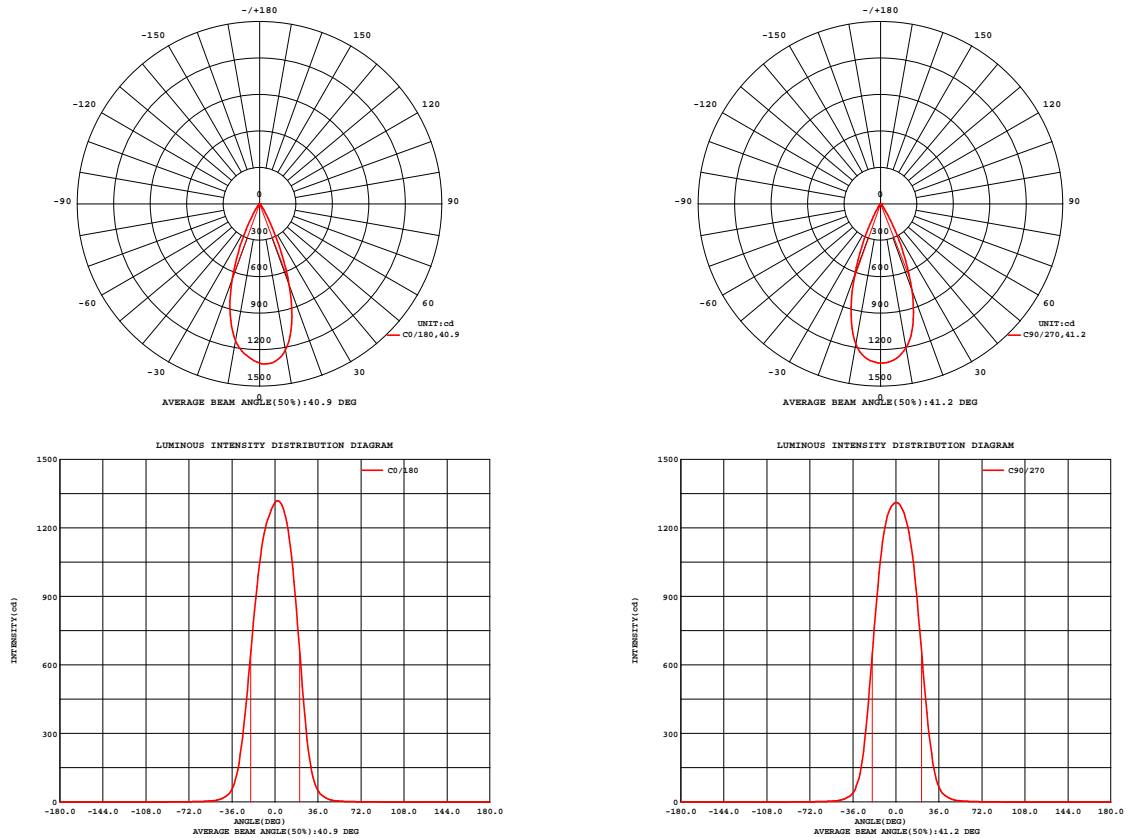


Fig. C0/C180

Fig. C90/C270

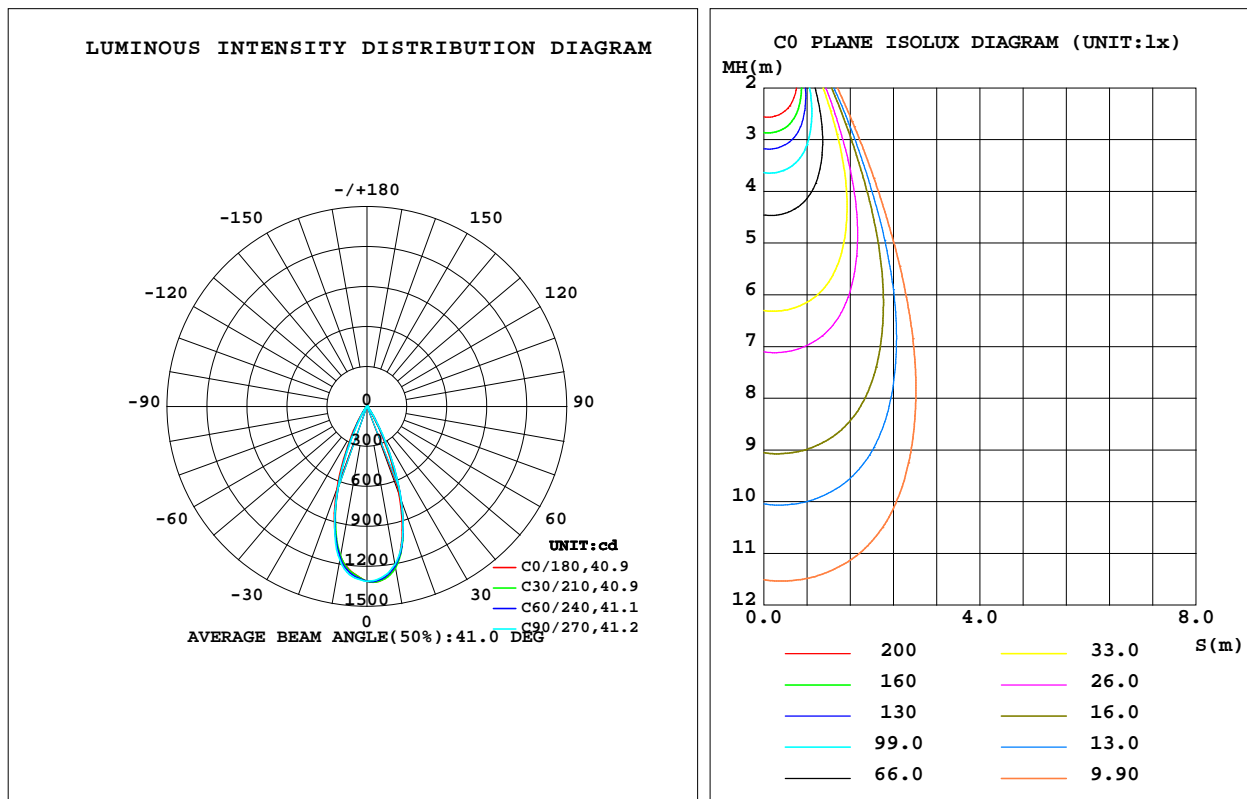
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.97V I:0.0783A P:9.2535W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm					
NAME: 2218.510-LEA-09			TYPE:		WEIGHT:
SPEC.:3000K			DIM.:		SERIAL No.:2303170325
MFR.: RISE			SUR.:0.001589625m2		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 67.65 lm/W
MODEL	CREE	I _{max} (cd)	1319	S/MH(C0/180)	0.63	
NOMINAL POWER(W)	9	LOR(%)	82.3	S/MH(C90/270)	0.61	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	625.98	UP,DN(C0-180)	0.0,43.3	
NOMINAL FLUX(lm)	760.254	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,39.0	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	down(%)	82.3	CIBSE SHR MAX	0.65	



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ZONAL FLUX DIAGRAM

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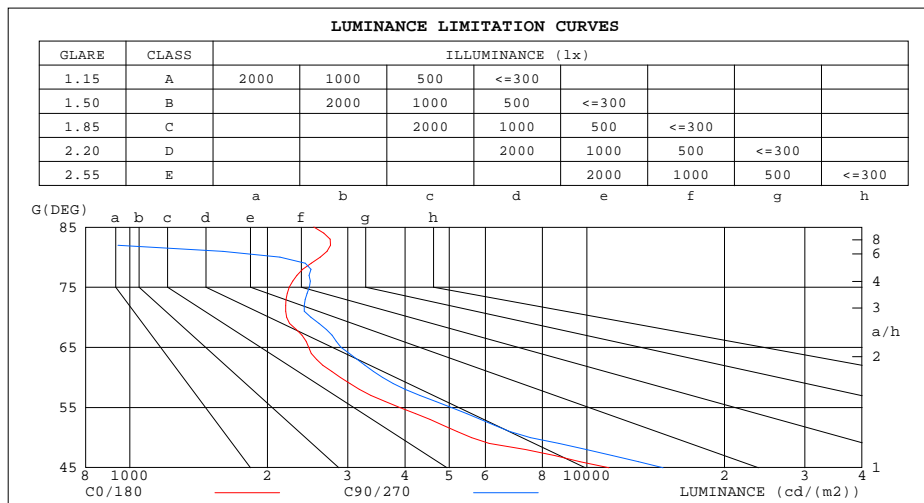
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1222	1224	1204	1165	1147	1149	1174	1207	0- 10	119.4	119.4	19.1,15.7
20	713.8	751.8	756.1	702.5	664.9	629.7	629.0	674.7	10- 20	266.7	386.1	61.7,50.8
30	156.6	191.7	210.5	190.6	170.7	142.2	124.0	140.7	20- 30	176.7	562.8	89.9,74
40	26.90	31.14	33.82	31.64	28.54	23.76	21.05	23.87	30- 40	45.37	608.2	97.2,80
50	5.721	6.730	7.698	7.529	6.605	5.810	5.240	5.342	40- 50	11.04	619.3	98.9,81.5
60	2.297	2.587	2.842	2.785	2.669	2.498	2.323	2.285	50- 60	3.630	622.9	99.5,81.9
70	1.198	1.292	1.355	1.422	1.398	1.288	1.197	1.173	60- 70	1.830	624.7	99.8,82.2
80	0.7205	0.6653	0.5881	0.7843	0.8381	0.7048	0.4597	0.5730	70- 80	1.042	625.8	100,82.3
90	0	0	0	0	0	0	0	0	80- 90	0.2195	626.0	100,82.3
100	0	0	0	0	0	0	0	0	90-100	0	626.0	100,82.3
110	0	0	0	0	0	0	0	0	100-110	0	626.0	100,82.3
120	0	0	0	0	0	0	0	0	110-120	0	626.0	100,82.3
130	0	0	0	0	0	0	0	0	120-130	0	626.0	100,82.3
140	0	0	0	0	0	0	0	0	130-140	0	626.0	100,82.3
150	0	0	0	0	0	0	0	0	140-150	0	626.0	100,82.3
160	0	0	0	0	0	0	0	0	150-160	0	626.0	100,82.3
170	0	0	0	0	0	0	0	0	160-170	0	626.0	100,82.3
180	0	0	0	0	0	0	0	0	170-180	0	626.0	100,82.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:2303170325
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	2526	164
80	2611	2131
75	2234	2473
70	2204	2492
65	2463	2901
60	2891	3576
55	3903	5061
50	5601	7535
45	11175	14671

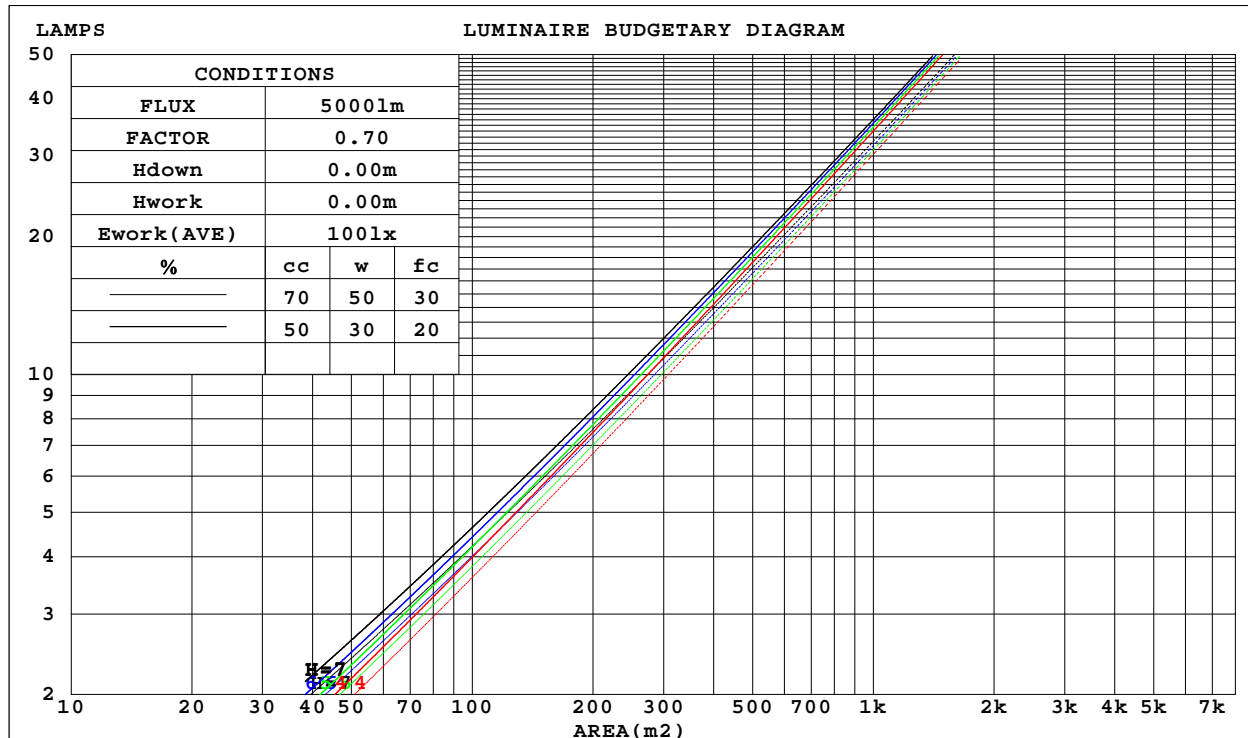
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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			Coefficients of Utilization(CU)												
0.0	.98	.98	.98	.96	.96	.96	.91	.91	.91	.88	.88	.88	.84	.84	.84	.82
1.0	.92	.90	.89	.90	.89	.87	.87	.86	.85	.84	.83	.82	.81	.80	.80	.78
2.0	.87	.84	.82	.86	.83	.81	.83	.81	.79	.81	.79	.77	.78	.77	.76	.74
3.0	.82	.79	.76	.81	.78	.75	.79	.76	.74	.77	.75	.73	.75	.74	.72	.71
4.0	.78	.74	.71	.77	.74	.71	.76	.73	.70	.74	.71	.69	.73	.70	.69	.68
5.0	.74	.70	.67	.74	.70	.67	.72	.69	.67	.71	.68	.66	.70	.67	.65	.64
6.0	.71	.67	.64	.70	.67	.64	.69	.66	.63	.68	.65	.63	.67	.65	.62	.61
7.0	.68	.64	.61	.67	.63	.61	.66	.63	.60	.65	.62	.60	.65	.62	.60	.59
8.0	.65	.61	.58	.65	.61	.58	.64	.60	.58	.63	.60	.57	.62	.59	.57	.56
9.0	.62	.58	.56	.62	.58	.55	.61	.58	.55	.61	.57	.55	.60	.57	.55	.54
10.0	.60	.56	.53	.59	.56	.53	.59	.55	.53	.58	.55	.53	.58	.55	.53	.52



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30minutes warm-up

WEC AND CCEC

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NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170325
MFR.: RISE	SUR.:0.001589625m2	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	.128	.073	.023	.123	.070	.022	.113	.065	.021	.103	.059	.019	.094	.055	.018	
2.0	.121	.066	.020	.116	.064	.020	.108	.060	.019	.100	.056	.018	.092	.052	.016	
3.0	.114	.061	.018	.110	.059	.018	.103	.056	.017	.096	.053	.016	.090	.050	.015	
4.0	.108	.056	.016	.104	.055	.016	.098	.052	.016	.092	.050	.015	.087	.047	.014	
5.0	.102	.052	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014	.084	.045	.014	
6.0	.097	.049	.014	.095	.048	.014	.090	.046	.013	.086	.045	.013	.082	.043	.013	
7.0	.093	.046	.013	.091	.045	.013	.087	.044	.013	.083	.042	.012	.079	.041	.012	
8.0	.089	.043	.012	.087	.043	.012	.083	.042	.012	.080	.040	.012	.077	.039	.011	
9.0	.085	.041	.011	.083	.041	.011	.080	.040	.011	.077	.039	.011	.074	.038	.011	
10.0	.082	.039	.011	.080	.039	.011	.077	.038	.011	.075	.037	.011	.072	.036	.010	

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	.157	.157	.157	.134	.134	.134	.091	.091	.091	.053	.053	.053	.017	.017	.017	
1.0	.140	.130	.121	.120	.111	.104	.082	.077	.072	.047	.044	.042	.015	.014	.014	
2.0	.126	.109	.095	.108	.094	.082	.074	.065	.057	.043	.038	.034	.014	.012	.011	
3.0	.115	.093	.077	.098	.081	.066	.067	.056	.047	.039	.033	.027	.013	.011	.009	
4.0	.105	.081	.063	.090	.070	.054	.062	.049	.038	.036	.029	.023	.012	.009	.007	
5.0	.097	.071	.052	.083	.062	.045	.057	.043	.032	.033	.025	.019	.011	.008	.006	
6.0	.090	.063	.044	.078	.055	.038	.054	.038	.027	.031	.023	.016	.010	.007	.005	
7.0	.085	.057	.037	.073	.049	.032	.050	.034	.023	.029	.020	.014	.009	.007	.005	
8.0	.080	.051	.032	.069	.045	.028	.047	.031	.020	.028	.018	.012	.009	.006	.004	
9.0	.075	.047	.028	.065	.041	.024	.045	.029	.017	.026	.017	.010	.008	.006	.003	
10.0	.072	.043	.024	.062	.037	.021	.043	.026	.015	.025	.016	.009	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2303170325		
MFR.: RISE					SUR.:0.001589625m2			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	14.0	14.8	14.3	15.0	15.1	15.2	16.0	15.4	16.1	16.3
3H	14.0	14.7	14.2	14.9	15.1	15.1	15.9	15.4	16.0	16.2
4H	13.9	14.6	14.2	14.8	15.1	15.1	15.8	15.4	16.0	16.2
6H	13.9	14.6	14.2	14.8	15.0	15.0	15.7	15.3	15.9	16.2
8H	13.9	14.5	14.2	14.8	15.0	15.0	15.6	15.3	15.9	16.1
12H	13.9	14.5	14.2	14.8	15.0	15.0	15.6	15.3	15.8	16.1
4H 2H	13.9	14.6	14.1	14.8	15.0	15.0	15.7	15.3	15.9	16.1
3H	13.8	14.4	14.1	14.7	15.0	14.9	15.5	15.3	15.8	16.1
4H	13.8	14.4	14.2	14.7	15.0	14.9	15.5	15.3	15.8	16.1
6H	13.8	14.3	14.2	14.6	15.0	14.9	15.4	15.3	15.7	16.1
8H	13.9	14.3	14.2	14.6	15.0	14.9	15.3	15.3	15.7	16.0
12H	13.8	14.3	14.2	14.6	15.0	14.8	15.2	15.2	15.6	16.0
8H 4H	13.7	14.2	14.1	14.5	14.9	14.8	15.3	15.2	15.6	16.0
6H	13.8	14.2	14.2	14.6	15.0	14.8	15.2	15.2	15.6	16.0
8H	13.8	14.2	14.3	14.6	15.0	14.8	15.1	15.2	15.5	15.9
12H	13.8	14.1	14.3	14.5	15.0	14.7	15.0	15.2	15.4	15.9
12H 4H	13.7	14.1	14.1	14.5	14.8	14.8	15.2	15.2	15.6	15.9
6H	13.7	14.1	14.2	14.5	14.9	14.8	15.1	15.2	15.5	16.0
8H	13.8	14.1	14.3	14.5	15.0	14.7	15.0	15.2	15.4	15.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 4.1					+ 3.2 / - 4.8				
1.5H	+ 4.2 / - 3.6					+ 5.1 / - 4.4				
2.0H	+ 3.3 / - 1.7					+ 4.4 / - 2.4				

CIE Pub.117, 760.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.0)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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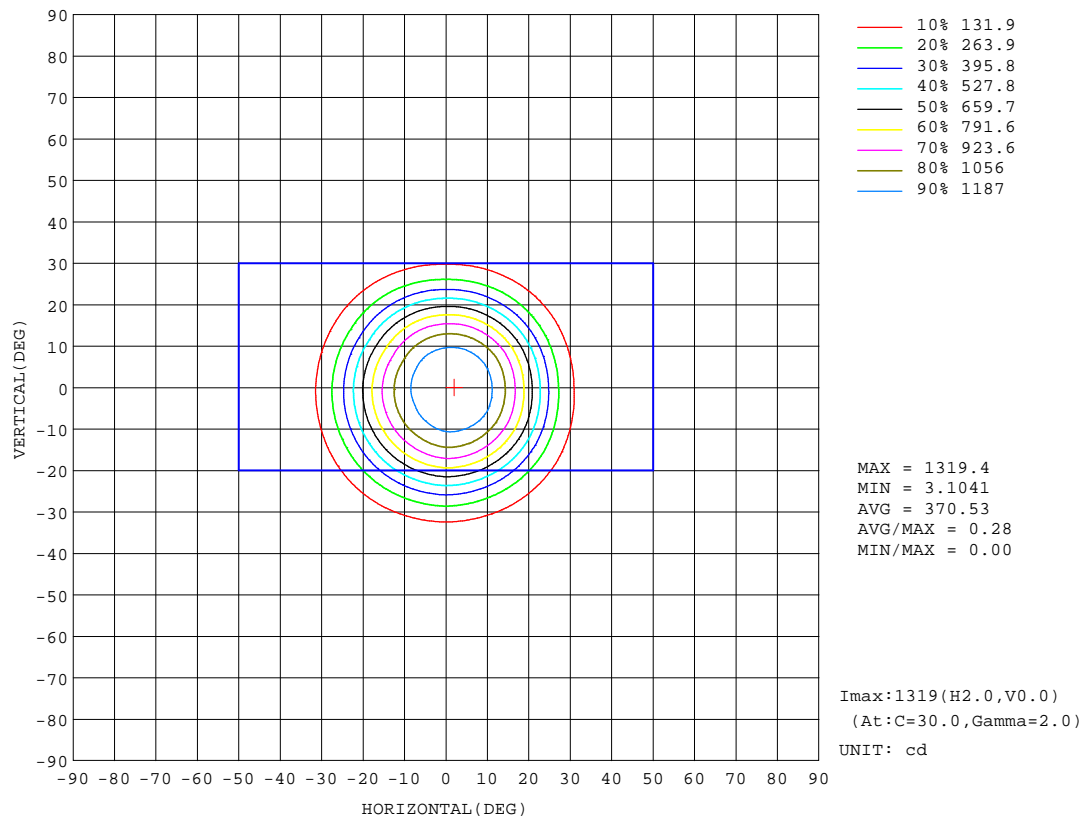
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	69	66	74	69	66	73	69	66	63
0.80	80	75	72	79	75	72	78	75	72	69
1.00	83	79	76	82	78	76	81	78	75	72
1.25	86	82	79	85	82	79	84	81	78	75
1.50	88	85	82	87	84	82	85	83	81	77
2.00	90	87	84	89	86	84	87	84	83	78
2.50	91	88	86	90	87	85	88	85	84	79
3.00	93	90	88	91	89	87	88	87	85	80
4.00	94	92	90	92	91	89	89	88	87	81
5.00	95	93	92	93	92	91	90	89	88	82
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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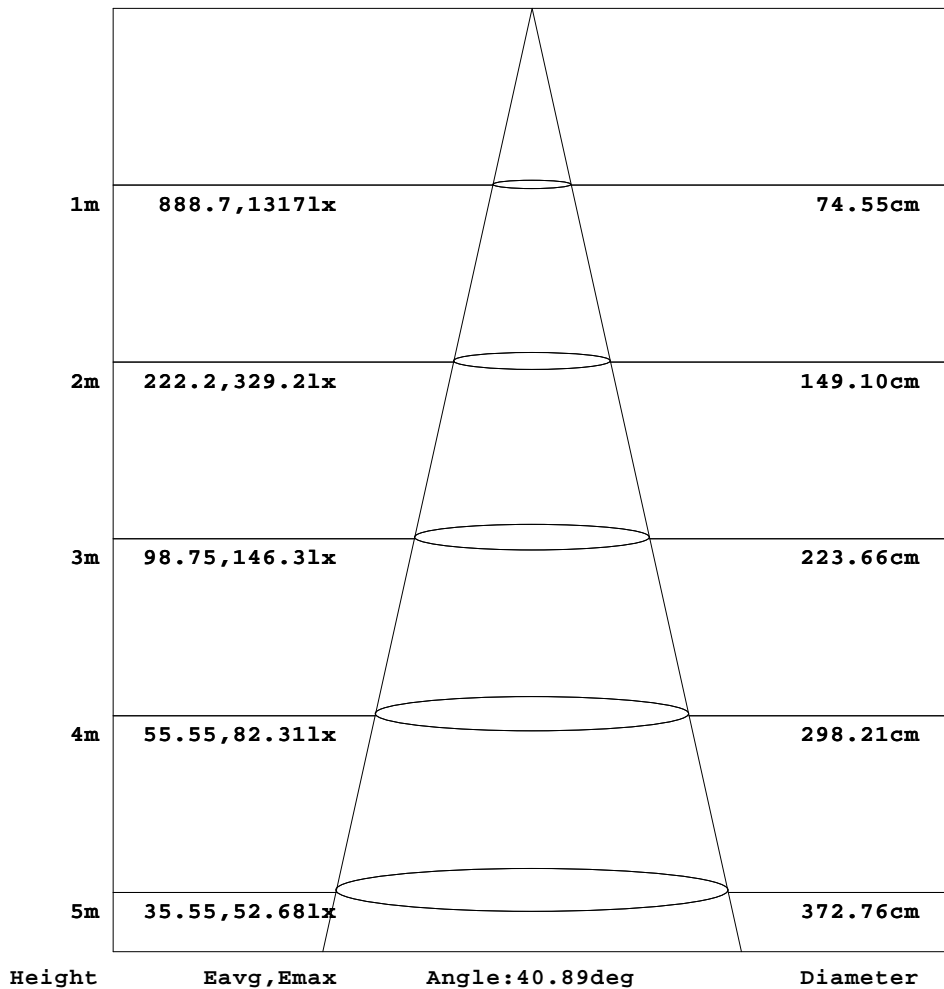
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Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS:PM-1084B 36R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

AAI Figure

Test:U:119.97V I:0.0783A P:9.2535W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170325
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

Flux out:411.4 lm



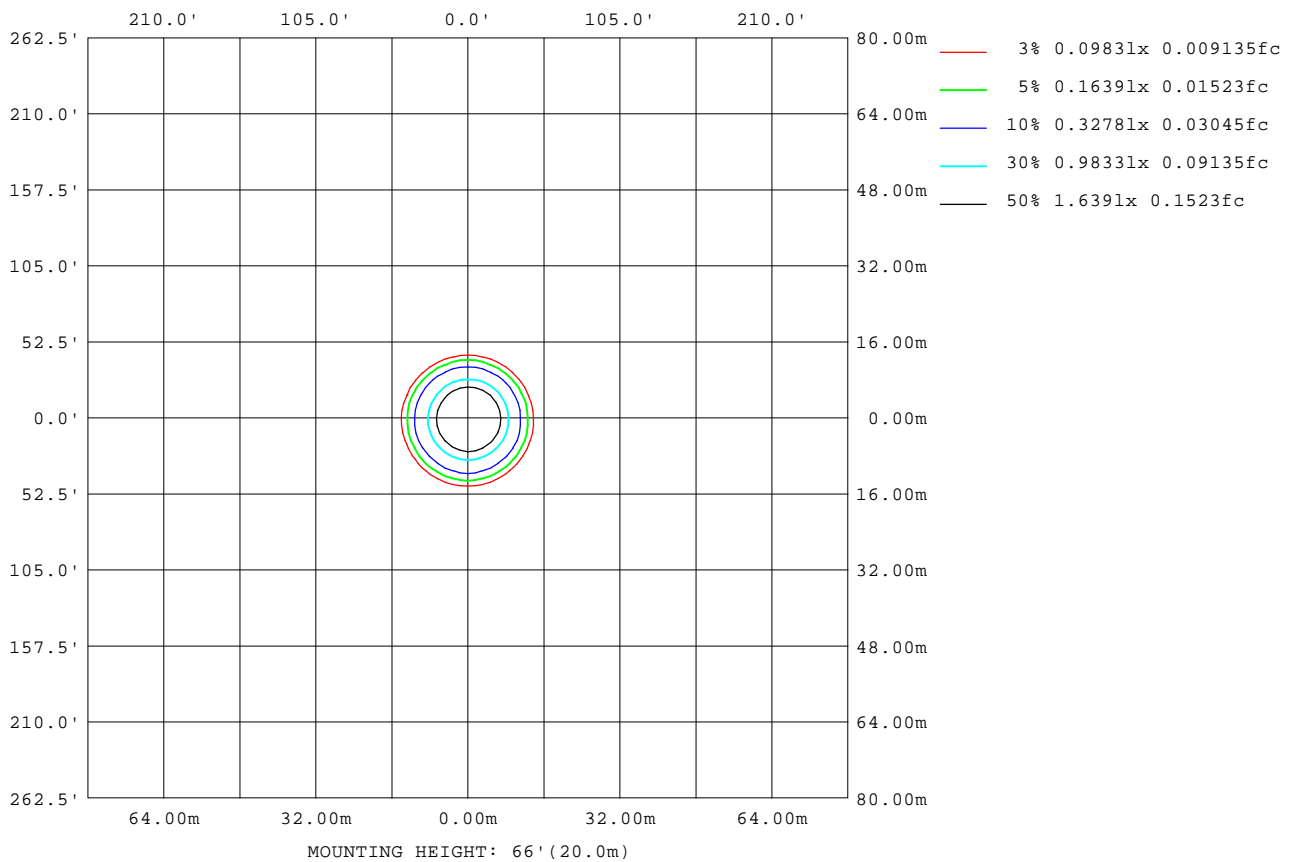
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-17

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:CMA1306-0000-000F0U0A30G Ra:90
LENS:PM-1084B 36R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.97V I:0.0783A P:9.2535W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170325
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-17

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:CMA1306-0000-000F0U0A30G Ra:90
LENS:PM-1084B 36R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

LED Avg.L Report

Test:U:119.97V I:0.0783A P:9.2535W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170325
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

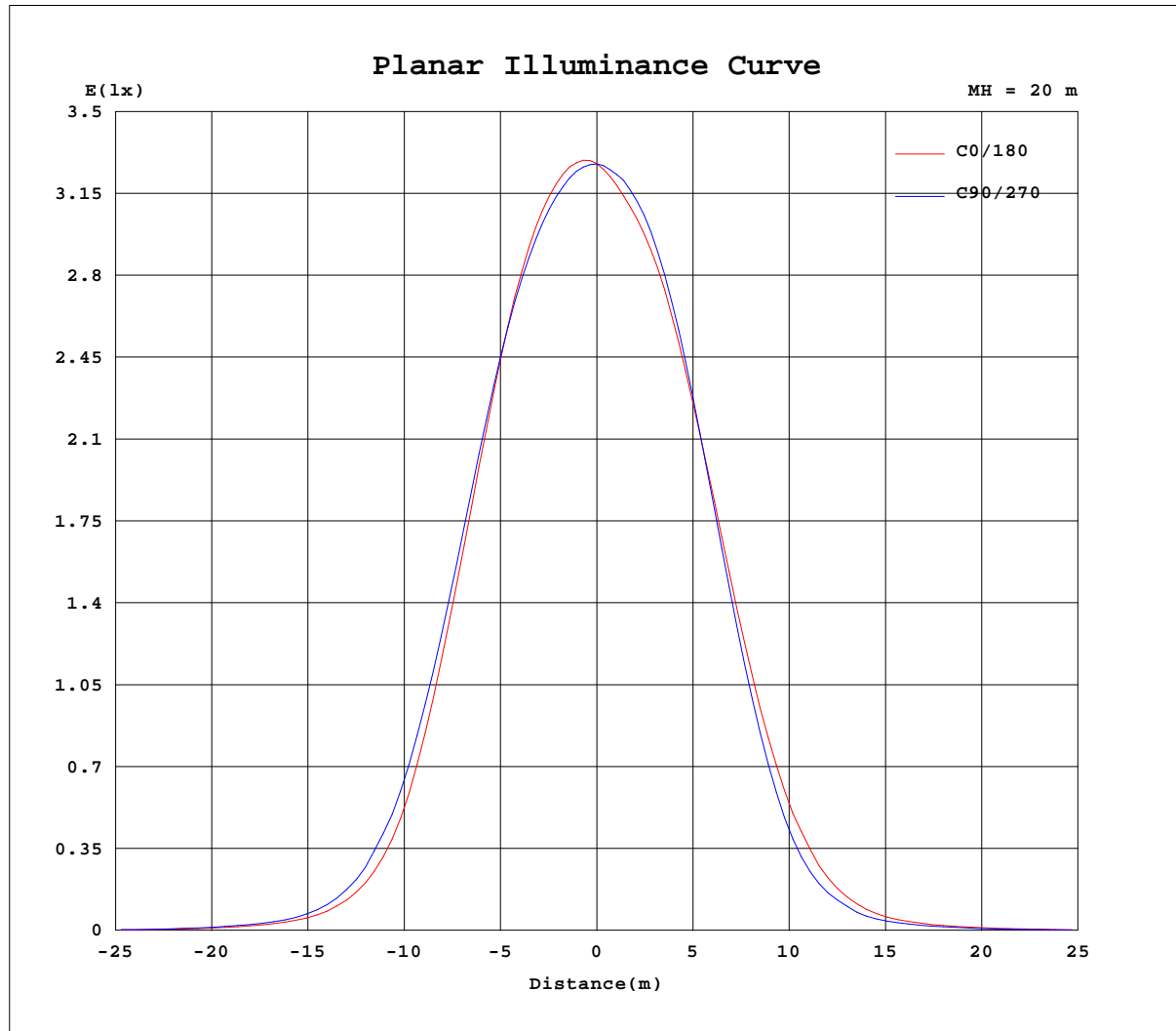
AvgL	cd/m2
L_0~180(65)av	2665
L_0~180(75)av	2411
L_0~180(85)av	3125
L_90~270(65)av	2732
L_90~270(75)av	2357
L_90~270(85)av	155
L_45(65)av	2706
L_45(75)av	2408
L_45(85)av	150

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-17

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:CMA1306-0000-000F0U0A30G Ra:90
LENS:PM-1084B 36R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-03-17

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: CMA1306-0000-000F0U0A30G Ra:90
 LENS: PM-1084B 36R
 DRIVER: PUP10A-1WMC-700 400mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.97V I:0.0783A P:9.2535W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170325
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310						
5	1308	1308	1298	1287	1268	1253	1251	1255	1267	1280	1298	1309						
10	1222	1232	1217	1204	1175	1156	1147	1141	1157	1174	1198	1217						
15	1020	1040	1038	1032	992	964	942	916	931	944	975	1009						
20	714	750	754	756	719	686	665	630	629	629	656	694						
25	382	423	437	448	424	400	380	344	331	318	335	363						
30	157	189	194	210	195	187	171	149	135	124	134	147						
35	60.9	71.4	78.5	80.7	80.4	71.4	66.7	57.2	49.7	45.6	50.2	55.8						
40	26.9	30.3	32.0	33.8	32.6	30.7	28.5	24.9	22.6	21.0	23.0	24.7						
45	12.6	14.4	15.6	16.5	16.0	15.0	14.0	12.3	11.1	10.2	10.6	11.7						
50	5.72	6.40	7.06	7.70	7.97	7.09	6.60	6.02	5.60	5.24	5.20	5.48						
55	3.56	3.93	4.29	4.61	4.60	4.36	4.21	3.90	3.61	3.35	3.34	3.45						
60	2.30	2.48	2.69	2.84	2.83	2.74	2.67	2.55	2.45	2.32	2.28	2.29						
65	1.65	1.76	1.89	1.95	1.98	1.96	1.93	1.86	1.81	1.72	1.65	1.64						
70	1.20	1.26	1.33	1.35	1.43	1.41	1.40	1.32	1.25	1.20	1.17	1.18						
75	0.92	0.97	1.02	1.02	1.08	1.07	1.07	1.02	0.97	0.92	0.89	0.90						
80	0.72	0.74	0.59	0.59	0.73	0.84	0.84	0.80	0.61	0.46	0.48	0.67						
85	0.35	0.04	0.01	0.02	0.01	0.15	0.52	0.09	0.00	0.02	0.00	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
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