

Luminaire Photograph



Light Output Ratio:	76.2%	
Luminaire Power:	26.9 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: 2023-1-13

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: CLU028-1204C4-303H5M3-F1 Ra: 90
REFLECTOR: AP-060D-WW
DRIVER: 9290 028 090 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

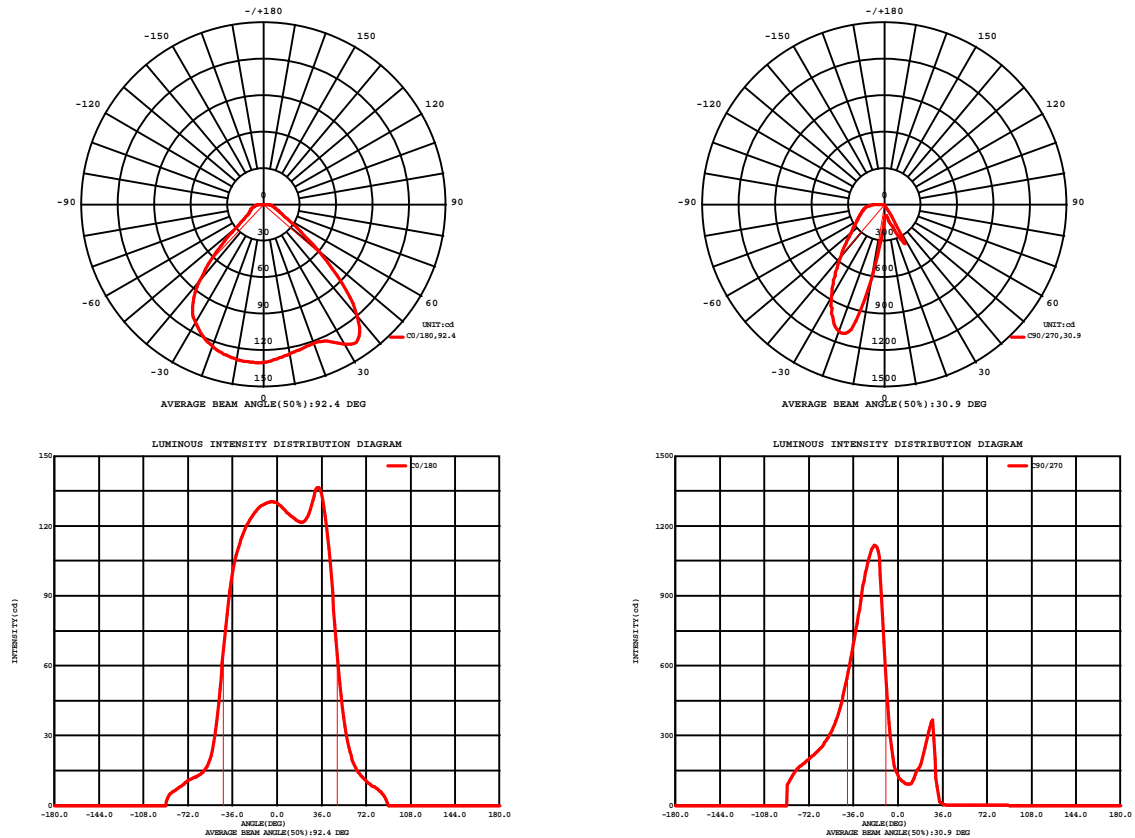


Fig. C0/C180

Fig. C90/C270

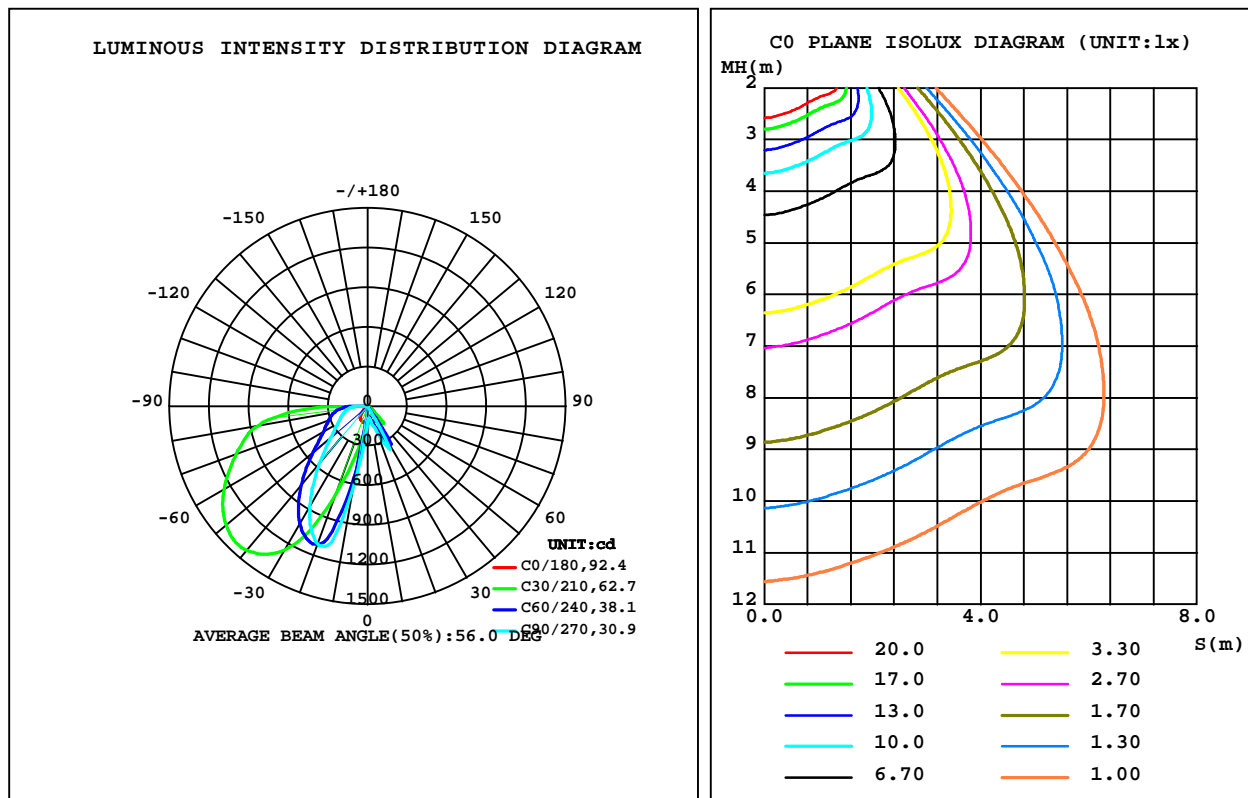
C Range: 0 - 360DEG
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Temperature: 25.3DEG
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.29V I:0.1273A P:26.905W PF:0.9564 Freq:49.99Hz Lamp Flux:2638.7x1 lm		
NAME: 2214.405B	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301130045
MFR.: RISE	SUR.:0.00564m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.74 lm/W			
MODEL	CITIZEN	I _{max} (cd)	1591	S/MH(C0/180)	1.24
NOMINAL POWER(W)	28	LOR(%)	76.2	S/MH(C90/270)	2.46
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2010.9	h UP,DN(C0-180)	0.0,5.2
NOMINAL FLUX(lm)	2638.7	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,71.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	h down(%)	76.2	CIBSE SHR MAX	1.00



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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:CLU028-1204C4-303H5M3-F1 Ra:90
REFLECTOR:AP-060D-WW
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30minutes warm-up

ZONAL FLUX DIAGRAM

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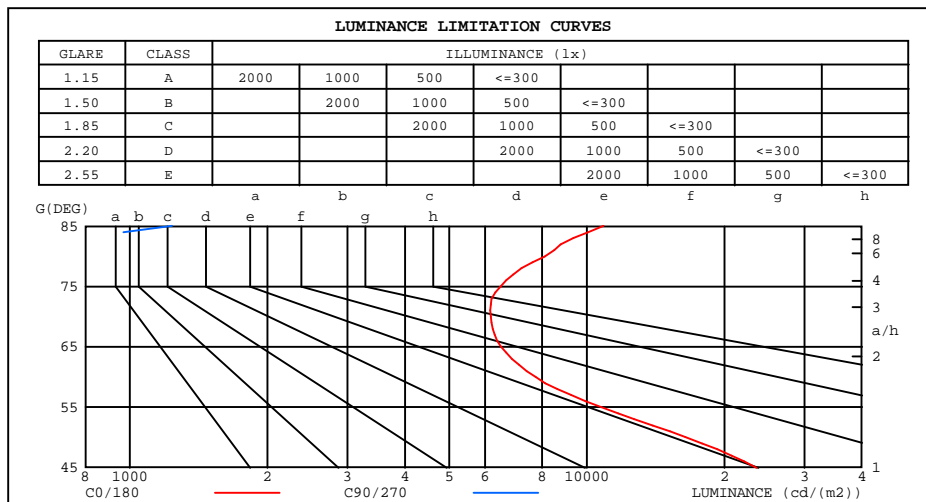
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	124.8	89.98	93.39	97.12	129.3	368.9	600.4	353.8	0- 10	16.61	16.61	0.83,0.63
20	121.6	111.2	200.9	126.2	124.0	907.9	1109	966.6	10- 20	108.3	124.9	6.21,4.73
30	132.8	203.7	198.9	241.3	112.5	1141	880.8	1258	20- 30	255.1	380.0	18.9,14.4
40	120.1	87.67	2.477	113.7	82.02	1106	572.5	1212	30- 40	329.2	709.2	35.3,26.9
50	58.05	31.27	0.4387	20.79	30.45	972.2	362.9	1041	40- 50	337.3	1046	52,39.7
60	21.21	2.118	0.0853	2.112	14.23	825.6	262.2	852.6	50- 60	301.9	1348	67.1,51.1
70	11.57	0.3470	0.1773	0.3520	11.08	689.5	206.8	701.4	60- 70	272.4	1621	80.6,61.4
80	7.692	0.9573	0.4304	0.9556	7.346	547.9	163.0	559.8	70- 80	238.8	1860	92.5,70.5
90	0	0	0	0	0	0	0	0	80- 90	151.3	2011	100,76.2
100	0	0	0	0	0	0	0	0	90-100	0	2011	100,76.2
110	0	0	0	0	0	0	0	0	100-110	0	2011	100,76.2
120	0	0	0	0	0	0	0	0	110-120	0	2011	100,76.2
130	0	0	0	0	0	0	0	0	120-130	0	2011	100,76.2
140	0	0	0	0	0	0	0	0	130-140	0	2011	100,76.2
150	0	0	0	0	0	0	0	0	140-150	0	2011	100,76.2
160	0	0	0	0	0	0	0	0	150-160	0	2011	100,76.2
170	0	0	0	0	0	0	0	0	160-170	0	2011	100,76.2
180	0	0	0	0	0	0	0	0	170-180	0	2011	100,76.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.29V I:0.1273A P:26.905W PF:0.9564 Freq:49.99Hz Lamp Flux:2638.7x1 lm		
NAME: 2214.405B	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301130045
MFR.: RISE	SUR.:0.00564m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	10870	1237
80	8079	442
75	6476	194
70	6169	92
65	6508	48
60	7738	30
55	10748	46
50	16472	122
45	23557	371

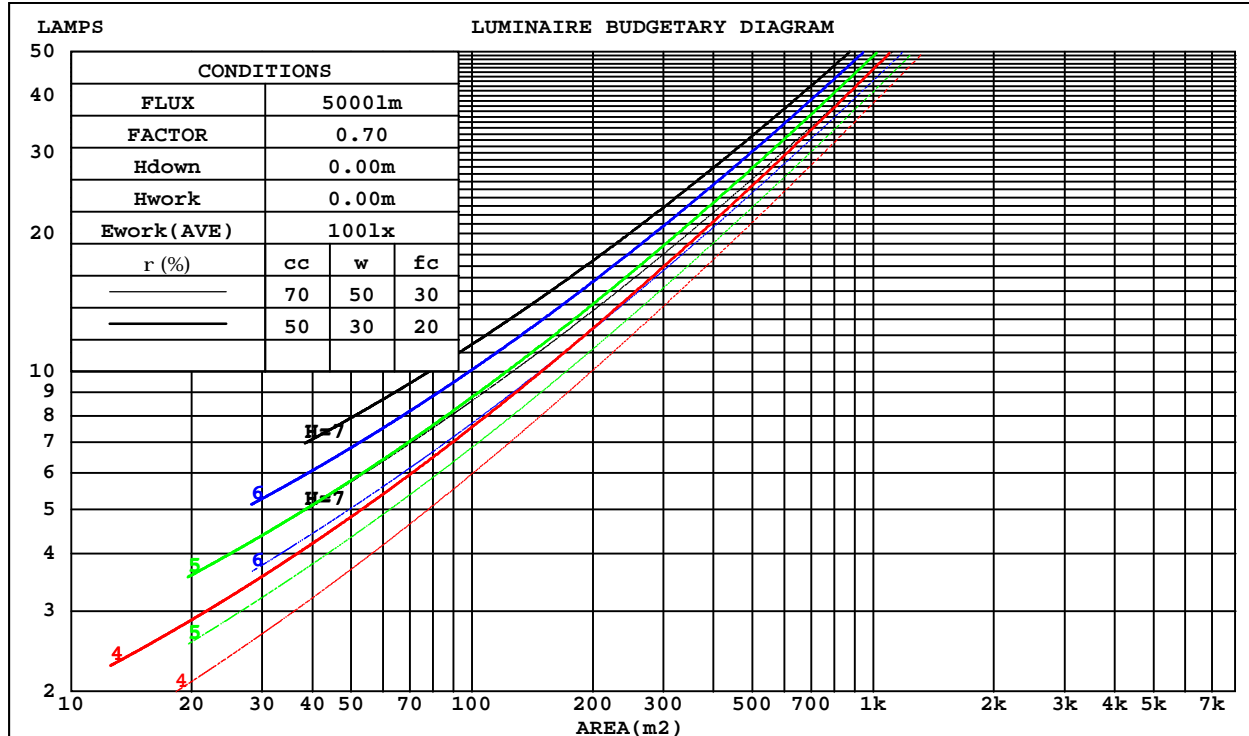
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.91	.91	.91	.89	.89	.89	.85	.85	.85	.81	.81	.81	.78	.78	.78	.76
1.0	.76	.71	.67	.74	.70	.66	.70	.67	.64	.67	.65	.62	.64	.62	.60	.58
2.0	.64	.58	.53	.63	.57	.52	.60	.55	.51	.57	.53	.50	.55	.51	.48	.47
3.0	.55	.48	.42	.54	.47	.42	.52	.46	.41	.50	.45	.40	.48	.43	.40	.38
4.0	.49	.41	.35	.47	.40	.35	.45	.39	.34	.44	.38	.34	.42	.37	.33	.31
5.0	.43	.35	.30	.42	.35	.29	.40	.34	.29	.39	.33	.29	.37	.32	.28	.27
6.0	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.33	.28	.24	.23
7.0	.34	.27	.22	.34	.27	.22	.32	.26	.22	.31	.26	.21	.30	.25	.21	.20
8.0	.31	.24	.19	.30	.24	.19	.29	.23	.19	.28	.23	.19	.27	.22	.19	.17
9.0	.28	.22	.17	.28	.21	.17	.27	.21	.17	.26	.21	.17	.25	.20	.17	.15
10.0	.26	.19	.15	.25	.19	.15	.25	.19	.15	.24	.19	.15	.23	.18	.15	.13



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WEC AND CCEC

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NAME: 2214.405B	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301130045
MFR.: RISE	SUR.:0.00564m2	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	.306	.174	.055	.300	.171	.054	.289	.166	.053	.280	.161	.052	.271	.157	.051		
2.0	.267	.146	.045	.262	.144	.044	.253	.140	.044	.244	.137	.043	.236	.134	.042		
3.0	.238	.127	.038	.233	.125	.038	.225	.122	.037	.217	.119	.037	.210	.116	.036		
4.0	.214	.111	.033	.210	.110	.033	.203	.108	.032	.196	.105	.032	.190	.103	.031		
5.0	.195	.099	.029	.191	.098	.029	.185	.096	.028	.179	.094	.028	.173	.092	.028		
6.0	.178	.089	.026	.175	.089	.025	.169	.087	.025	.164	.085	.025	.159	.084	.025		
7.0	.164	.081	.023	.162	.081	.023	.157	.079	.023	.152	.078	.023	.147	.076	.022		
8.0	.152	.075	.021	.150	.074	.021	.145	.073	.021	.141	.071	.021	.137	.070	.020		
9.0	.142	.069	.019	.140	.068	.019	.136	.067	.019	.132	.066	.019	.128	.065	.019		
10.0	.133	.064	.018	.131	.063	.018	.127	.062	.018	.124	.061	.017	.120	.061	.017		

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	.145	.145	.145	.124	.124	.124	.085	.085	.085	.049	.049	.049	.016	.016	.016	
1.0	.142	.118	.097	.122	.102	.083	.083	.070	.058	.048	.040	.034	.015	.013	.011	
2.0	.137	.100	.069	.118	.086	.060	.081	.060	.042	.046	.035	.024	.015	.011	.008	
3.0	.132	.087	.052	.113	.075	.045	.077	.052	.032	.045	.031	.019	.014	.010	.006	
4.0	.125	.077	.041	.108	.067	.035	.074	.047	.025	.043	.027	.015	.014	.009	.005	
5.0	.119	.070	.033	.103	.060	.029	.071	.042	.020	.041	.025	.012	.013	.008	.004	
6.0	.114	.064	.028	.098	.055	.024	.067	.039	.017	.039	.023	.010	.013	.007	.003	
7.0	.108	.058	.024	.093	.051	.021	.064	.035	.015	.037	.021	.009	.012	.007	.003	
8.0	.103	.054	.020	.088	.047	.018	.061	.033	.013	.036	.019	.008	.012	.006	.002	
9.0	.098	.050	.018	.084	.044	.016	.058	.031	.011	.034	.018	.007	.011	.006	.002	
10.0	.093	.047	.016	.080	.041	.014	.056	.029	.010	.033	.017	.006	.011	.006	.002	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2301130045		
MFR.: RISE					SUR.:0.00564m2			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	14.8	16.5	15.1	16.7	16.9	9.3	11.0	9.6	11.2	11.4
3H	14.8	16.4	15.1	16.6	16.9	9.1	10.6	9.4	10.9	11.1
4H	14.9	16.4	15.2	16.7	16.9	8.9	10.4	9.3	10.7	11.0
6H	15.1	16.5	15.5	16.8	17.1	8.8	10.3	9.2	10.5	10.8
8H	15.3	16.7	15.6	17.0	17.3	8.8	10.2	9.1	10.5	10.8
12H	15.5	16.8	15.8	17.1	17.4	8.7	10.1	9.1	10.4	10.7
4H 2H	14.5	16.0	14.8	16.2	16.5	9.0	10.5	9.3	10.7	11.0
3H	14.5	15.8	14.8	16.1	16.4	8.7	10.1	9.1	10.4	10.7
4H	14.6	15.8	15.0	16.2	16.5	8.6	9.9	9.0	10.2	10.5
6H	14.9	16.0	15.3	16.4	16.8	8.5	9.7	9.0	10.0	10.4
8H	15.2	16.2	15.6	16.6	17.0	8.5	9.6	8.9	9.9	10.3
12H	15.5	16.5	16.0	16.9	17.3	8.5	9.5	8.9	9.9	10.3
8H 4H	14.4	15.5	14.9	15.9	16.3	8.5	9.5	8.9	9.9	10.3
6H	14.8	15.7	15.2	16.1	16.5	8.4	9.3	8.9	9.7	10.2
8H	15.1	15.9	15.6	16.4	16.8	8.4	9.3	8.9	9.7	10.1
12H	15.6	16.3	16.1	16.8	17.3	8.5	9.2	9.0	9.7	10.2
12H 4H	14.4	15.4	14.8	15.8	16.2	8.5	9.5	8.9	9.8	10.3
6H	14.8	15.6	15.2	16.0	16.5	8.5	9.3	8.9	9.7	10.1
8H	15.1	15.8	15.6	16.3	16.8	8.5	9.2	9.0	9.6	10.1
Variations with the observer position at spacings:										
S = 1.0H	+ 3.2 / - 3.3					+ 3.5 / - 7.3				
1.5H	+ 2.0 / - 5.3					+ 8.2 / - 7.1				
2.0H	+ 5.1 / - 4.8					+ 4.3 / - 1.8				

CIE Pub.117, 2639 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.4$)
Area: 0.00564 m2

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UTILIZATION FACTORS TABLE

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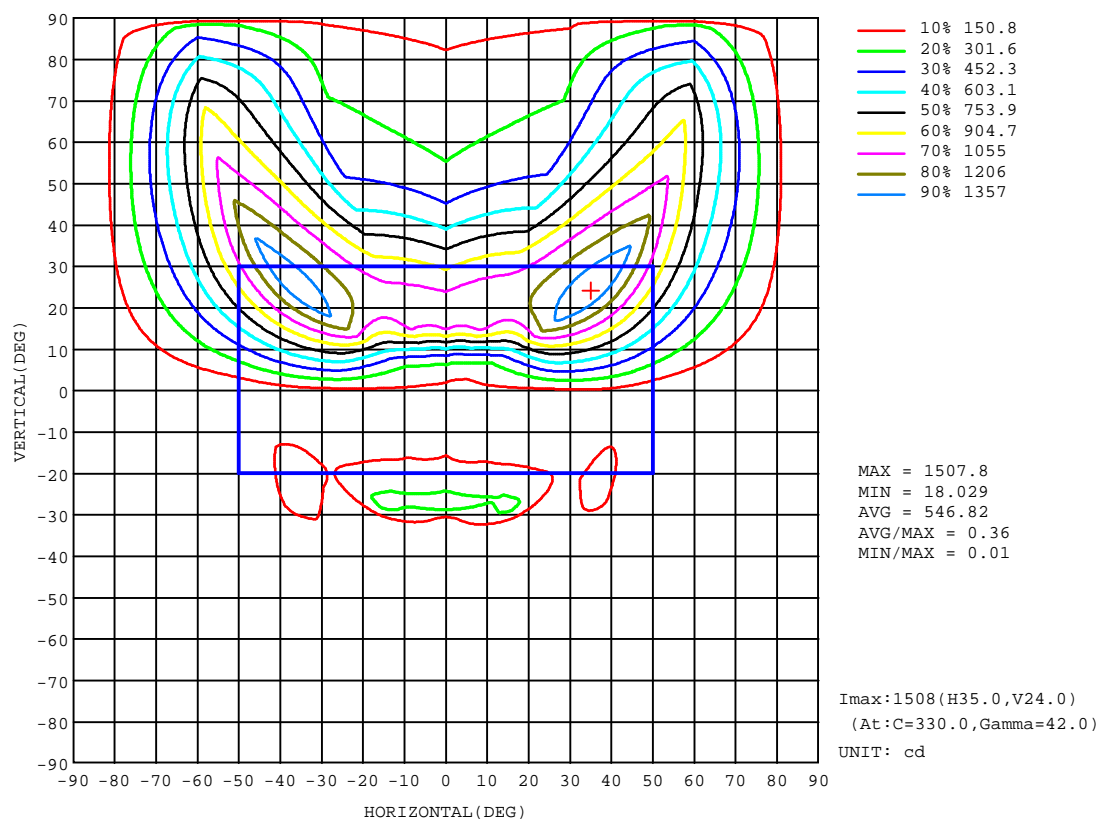
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	40	31	25	39	30	25	39	30	25	19
0.80	47	38	31	46	37	31	45	37	31	25
1.00	54	44	38	53	44	38	51	45	37	31
1.25	59	50	43	58	49	43	55	48	43	36
1.50	63	54	48	61	53	47	59	52	47	40
2.00	68	60	55	67	60	54	64	58	53	46
2.50	72	64	59	70	63	58	67	61	57	50
3.00	74	68	63	73	67	62	69	64	60	53
4.00	78	72	68	76	71	67	72	68	65	57
5.00	80	75	71	78	74	70	74	71	68	60
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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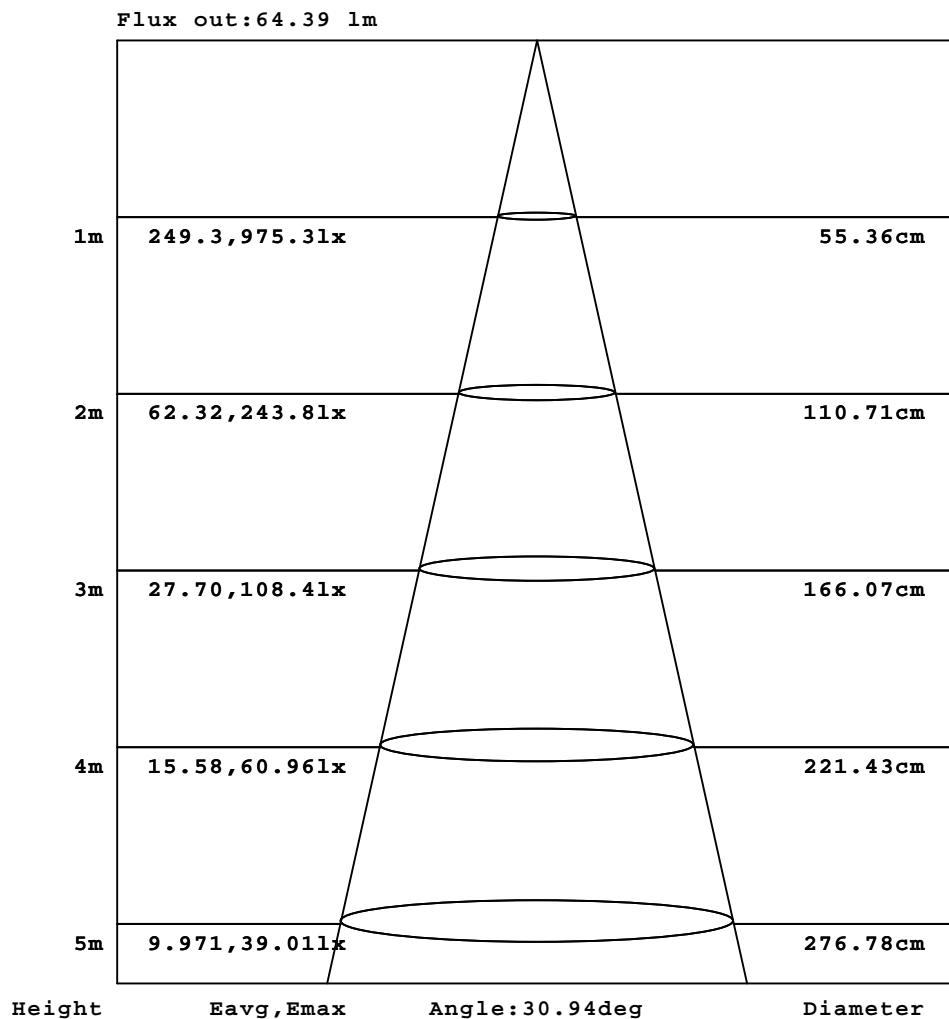


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30minutes warm-up

AAI Figure

Test:U:220.29V I:0.1273A P:26.905W PF:0.9564 Freq:49.99Hz Lamp Flux:2638.7x1 lm		
NAME: 2214.405B	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301130045
MFR.: RISE	SUR.:0.00564m2	Shielding Angle:



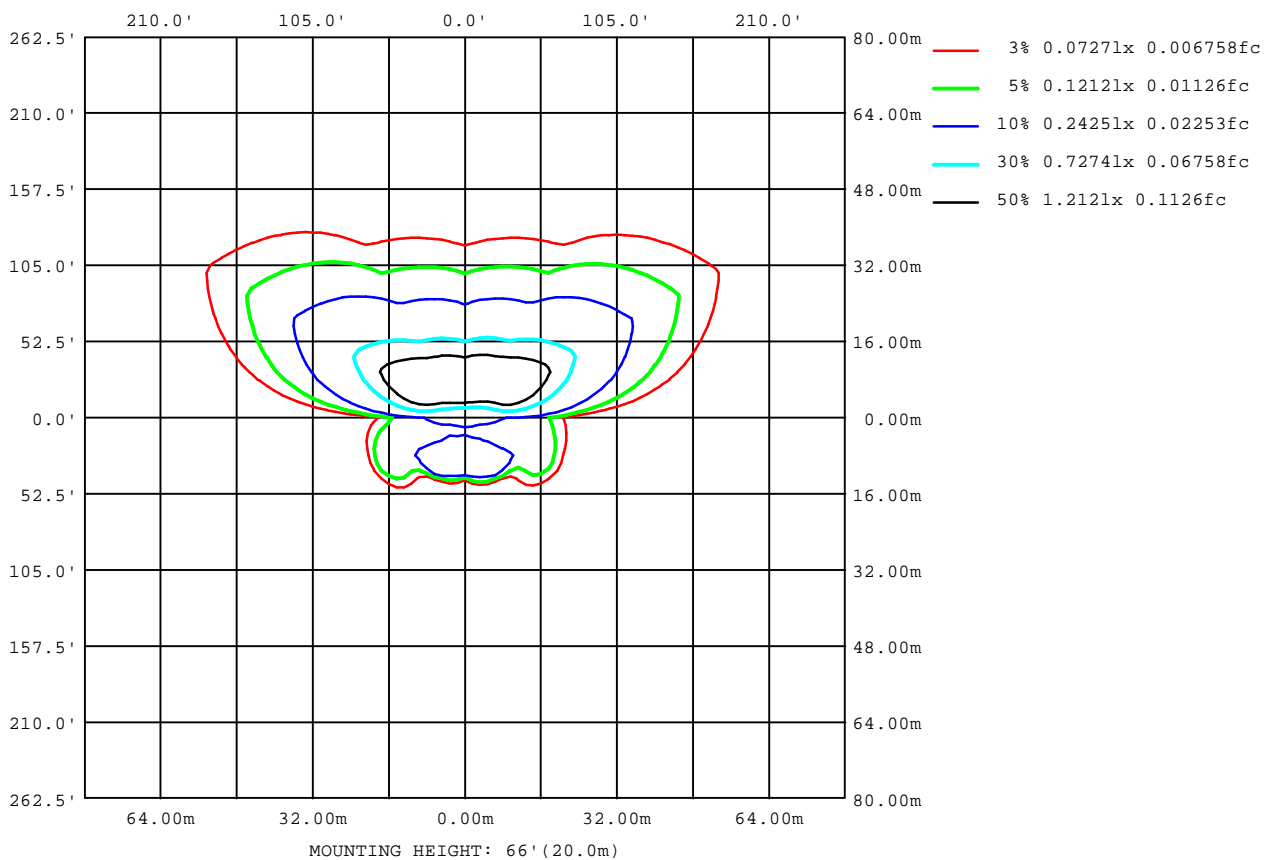
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-1-13

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:CLU028-1204C4-303H5M3-F1 Ra:90
REFLECTOR:AP-060D-WW
DRIVER:9290 028 090 700mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.29V I:0.1273A P:26.905W PF:0.9564 Freq:49.99Hz Lamp Flux:2638.7x1 lm		
NAME: 2214.405B	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301130045
MFR.: RISE	SUR.:0.00564m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-1-13

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:CLU028-1204C4-303H5M3-F1 Ra:90
REFLECTOR:AP-060D-WW
DRIVER:9290 028 090 700mA
30minutes warm-up

LED Avg.L Report

Test:U:220.29V I:0.1273A P:26.905W PF:0.9564 Freq:49.99Hz Lamp Flux:2638.7x1 lm		
NAME: 2214.405B	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301130045
MFR.: RISE	SUR.:0.00564m2	Shielding Angle:

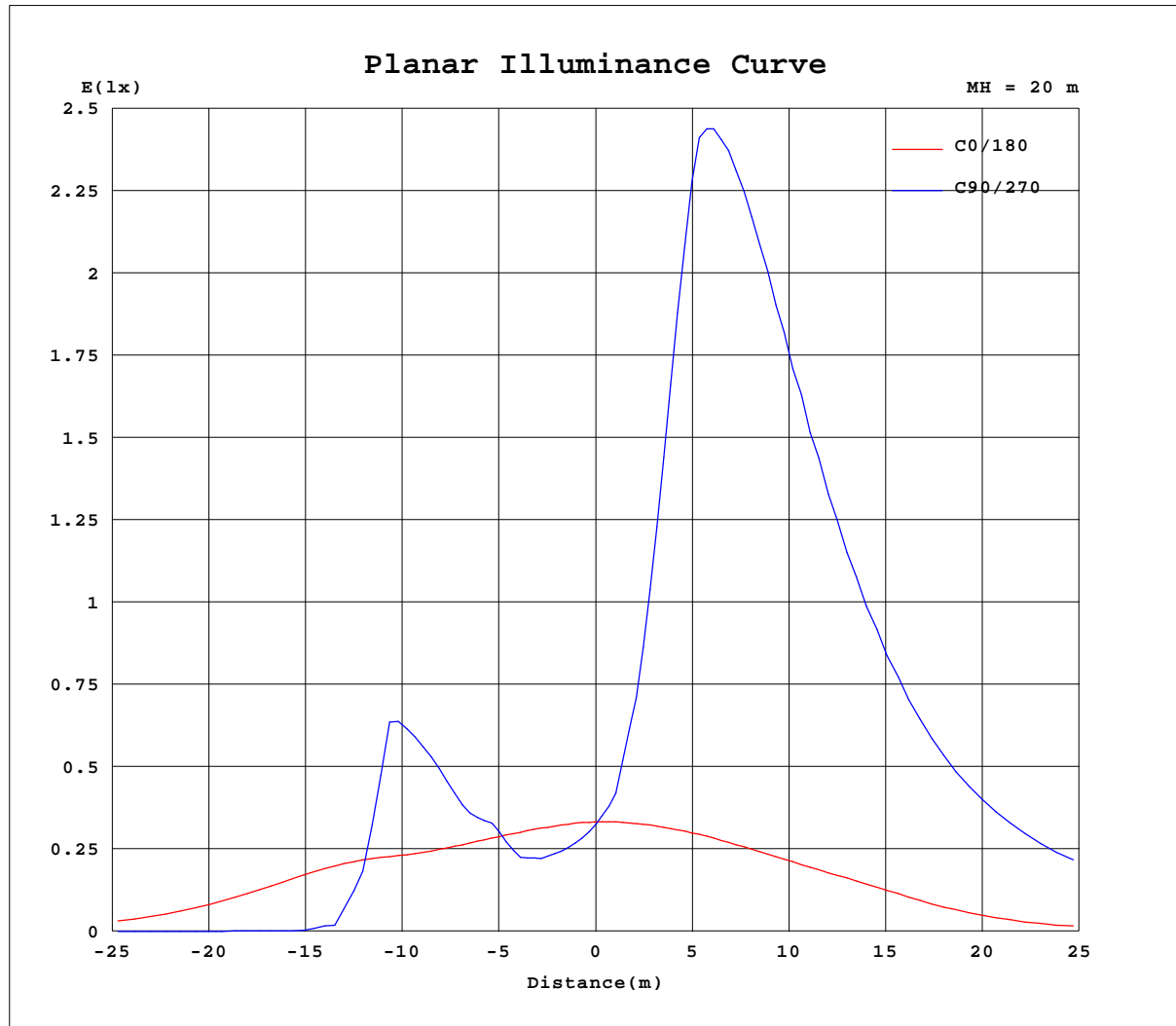
AvgL	cd/m2
L_0~180(65)av	5755
L_0~180(75)av	6314
L_0~180(85)av	10855
L_90~270(65)av	48456
L_90~270(75)av	63427
L_90~270(85)av	129413
L_45(65)av	177477
L_45(75)av	241005
L_45(85)av	455960

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-1-13

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:CLU028-1204C4-303H5M3-F1 Ra:90
REFLECTOR:AP-060D-WW
DRIVER:9290 028 090 700mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-1-13

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: CLU028-1204C4-303H5M3-F1 Ra:90
 REFLECTOR: AP-060D-WW
 DRIVER: 9290 028 090 700mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.29V I:0.1273A P:26.905W PF:0.9564 Freq:49.99Hz Lamp Flux:2638.7x1 lm		
NAME: 2214.405B	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301130045
MFR.: RISE	SUR.:0.00564m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	130	130	130	130	130	130	130	130	130	130	130	130						
5	128	107	99.7	99.0	104	113	130	164	213	249	198	155						
10	125	93.0	86.9	93.4	93.2	101	129	253	486	600	475	230						
15	123	83.4	106	146	125	91.2	128	431	902	1065	943	409						
20	122	71.7	151	201	168	83.3	124	705	1113	1109	1209	719						
25	124	70.7	226	316	259	94.2	119	1040	1103	1017	1207	1126						
30	133	87.9	321	199	359	122	113	1253	1028	881	1124	1396						
35	136	120	111	13.5	94.5	166	102	1367	916	716	995	1529						
40	120	163	11.6	2.48	10.4	219	82.0	1424	784	573	847	1584						
45	91.3	165	3.32	1.47	3.26	198	55.6	1434	657	452	705	1577						
50	58.1	60.3	1.93	0.44	1.81	40.2	30.5	1399	540	363	579	1513						
55	33.8	11.2	0.31	0.15	0.30	6.82	18.3	1341	450	303	483	1416						
60	21.2	4.08	0.14	0.09	0.14	4.12	14.2	1257	390	262	414	1300						
65	15.1	2.10	0.14	0.11	0.14	1.86	12.4	1156	349	231	365	1186						
70	11.6	0.46	0.23	0.18	0.23	0.48	11.1	1058	317	207	328	1082						
75	9.19	0.75	0.40	0.28	0.38	0.77	9.24	966	286	185	295	993						
80	7.69	1.26	0.65	0.43	0.62	1.30	7.35	840	253	163	258	868						
85	5.19	1.93	0.96	0.61	0.92	2.02	5.48	603	198	127	197	617						
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
Test Speed: HIGH
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Operators:Zoe
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