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IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLD-5120-LED-1000.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] IESNA:LM-63-2002

[ISSUEDATE] 09-09-2008

[MANUFAC] PREPARED FOR: JUSTICE LIGHTING

[LUMCAT] CATALOG NUMBER: STANDARD SQUARE WALL SCONCE

[LUMINAIRE] CLD-5120-LED-1000- ADA WALL SCONCE MOLDED PLASTIC LENS,

[LAMPCAT] ONE 13-WATT LED RATED 1000 LUMENS,

[LAMP] ONE 13-WATT LED LAMP

[BALLAST] BALLAST:13-W CFL

[MORE] MOUNTING: WALL TOTAL INPUT WATTS= 13W

CHARACTERISTICS

Lumens Per Lamp	1000 (1 lamp)
Total Lamp Lumens	1000
Luminaire Lumens	531
Total Luminaire Efficiency	53 %
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	0.40 ft
Luminous Height	1.27 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2148	1530	1054
55	2269	1617	1131
65	2401	1694	1196
75	2523	1763	1276
85	2626	1823	1341

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	8.889	8.889	8.889	8.889	8.889	8.889	8.889	8.889	8.889
2.5	13.333	11.667	12.778	10.556	10.556	8.889	10.000	8.333	10.000
5.0	16.667	15.000	16.667	13.333	13.333	10.556	12.778	11.667	13.889
7.5	21.111	18.333	20.000	17.222	17.222	14.445	16.667	15.556	17.778
10.0	23.889	22.778	23.334	20.556	19.445	17.778	20.556	18.889	20.556
12.5	26.667	25.556	26.111	21.667	20.556	20.000	22.778	21.111	22.778
15.0	31.111	28.889	28.889	23.334	21.667	21.111	23.889	22.222	23.334
17.5	35.556	33.334	31.667	25.000	22.222	21.667	24.445	21.667	21.111
20.0	41.111	37.223	35.000	26.667	22.222	21.667	23.889	19.445	17.222
22.5	46.111	42.778	38.334	28.334	22.222	20.556	21.111	16.667	14.445
25.0	51.112	47.223	41.667	29.445	22.222	19.445	18.333	14.445	11.667
27.5	56.112	51.667	45.000	31.667	22.778	18.333	16.667	11.667	9.445
30.0	60.556	56.112	48.334	33.334	23.334	17.778	14.445	10.000	7.778
32.5	65.001	60.556	52.223	35.000	23.889	17.222	12.778	8.333	6.667
35.0	68.889	64.445	55.556	37.223	25.000	17.222	11.667	7.222	5.556
37.5	72.778	68.334	58.889	39.445	25.556	16.667	10.556	6.111	5.000
40.0	77.223	72.778	62.223	42.223	26.667	16.667	10.000	5.000	4.444
42.5	80.556	76.112	65.556	43.889	27.778	16.667	9.445	4.444	3.333
45.0	85.001	79.445	68.334	46.111	28.889	16.667	9.445	3.889	3.333
47.5	88.334	83.334	71.667	48.334	30.000	17.222	8.889	3.333	2.778
50.0	92.223	86.667	74.445	50.000	31.111	17.222	8.889	2.778	2.778
52.5	95.556	90.001	77.223	52.223	32.222	17.778	8.889	2.778	2.222
55.0	98.890	93.890	80.001	53.889	33.334	18.333	8.889	2.222	2.222
57.5	102.223	96.667	82.223	56.112	33.889	18.333	8.889	2.222	1.667
60.0	105.556	100.001	85.001	57.778	35.000	18.889	8.889	1.667	1.667
62.5	108.334	102.779	87.223	59.445	36.111	19.445	9.445	1.667	1.667
65.0	111.112	105.556	89.445	61.112	36.667	20.000	9.445	1.667	1.111
67.5	113.890	108.334	91.667	62.223	37.778	20.000	9.445	1.111	1.111
70.0	116.112	110.556	93.334	63.334	38.334	20.556	9.445	1.111	1.111
72.5	117.779	112.779	95.001	64.445	38.889	21.111	9.445	1.111	1.111
75.0	120.001	114.445	96.112	65.556	39.445	21.111	9.445	1.111	1.111
77.5	121.668	116.112	97.223	66.667	40.000	21.667	9.445	1.111	1.111
80.0	122.779	117.223	98.334	67.223	40.000	21.667	9.445	1.111	1.111
82.5	123.334	118.334	98.890	67.778	40.556	21.667	9.445	0.556	0.556
85.0	124.445	118.890	99.445	68.334	40.556	21.667	9.445	0.556	0.556
87.5	124.445	119.445	100.001	68.334	40.556	21.667	9.445	0.556	0.556
90.0	125.001	120.001	100.001	68.334	40.556	21.667	9.445	0.556	0.556
92.5	125.001	120.001	100.001	68.334	40.556	21.667	9.445	0.556	0.556
95.0	124.445	119.445	99.445	68.334	40.556	21.667	9.445	0.556	0.556
97.5	123.334	118.890	98.890	67.778	40.556	21.667	9.445	0.556	0.556
100.0	122.223	117.223	97.779	66.667	40.000	21.667	9.445	0.556	0.556
102.5	121.112	116.112	96.667	66.112	39.445	21.111	9.445	1.111	1.111
105.0	119.445	113.890	95.556	65.001	38.889	21.111	9.445	1.111	1.111
107.5	117.223	111.668	93.890	63.889	38.334	20.556	9.445	1.111	1.111
110.0	114.445	109.445	91.667	62.778	37.778	20.556	9.445	1.111	1.111
112.5	112.223	107.223	90.001	61.112	36.667	20.000	9.445	1.667	1.111
115.0	109.445	103.890	87.778	59.445	36.111	19.445	9.445	1.667	1.667
117.5	106.668	101.112	85.556	57.778	35.000	18.889	8.889	1.667	1.667
120.0	103.334	98.334	82.778	56.112	34.445	18.889	8.889	2.222	1.667
122.5	100.001	95.001	80.001	54.445	33.334	18.333	8.889	2.222	2.222
125.0	96.667	91.667	77.223	52.778	32.222	17.778	8.889	2.778	2.222
127.5	93.334	87.778	74.445	50.556	31.111	17.222	8.889	2.778	2.222
130.0	90.001	84.445	71.667	48.889	30.000	17.222	8.889	3.333	2.778
132.5	86.112	81.112	68.889	46.667	28.889	16.667	9.445	3.889	3.333

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CANDELA TABULATION - (Cont.)

135.0	82.223	77.223	65.556	44.445	27.778	16.667	9.445	4.444	3.889
137.5	78.334	73.889	62.778	42.223	26.667	16.111	9.445	5.556	4.444
140.0	75.001	70.556	59.445	40.000	25.556	16.111	10.000	6.667	5.000
142.5	70.556	66.112	56.112	37.778	25.000	16.667	11.111	7.778	6.111
145.0	66.667	62.223	52.223	35.556	23.889	17.222	12.222	9.445	7.222
147.5	62.223	57.223	48.889	32.778	23.334	17.778	13.889	11.111	8.333
150.0	57.778	52.778	45.556	31.111	22.778	18.333	16.111	13.333	10.000
152.5	52.778	48.334	41.667	29.445	22.222	19.445	18.333	15.556	12.222
155.0	47.223	43.889	38.334	28.334	22.222	20.556	21.667	18.333	14.445
157.5	42.223	38.334	35.000	27.222	22.222	21.667	24.445	21.111	17.222
160.0	36.667	34.445	31.667	26.111	22.778	22.222	26.111	23.889	19.445
162.5	32.222	30.000	28.889	25.000	22.778	22.222	26.111	26.111	22.778
165.0	27.778	26.667	27.222	24.445	22.222	21.111	25.556	25.556	24.445
167.5	25.000	23.889	25.000	23.889	21.111	20.000	23.889	23.889	23.889
170.0	22.222	20.556	22.222	21.667	19.445	17.222	21.111	21.111	22.222
172.5	18.333	17.778	20.000	17.222	16.111	13.889	17.222	17.222	20.000
175.0	16.667	15.000	16.667	11.667	11.667	10.556	13.889	12.778	15.556
177.5	11.667	8.889	11.111	8.889	8.889	8.333	10.000	8.889	10.556
180.0	8.889	8.889	8.889	8.889	8.889	8.889	8.889	8.889	8.889

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8.52	0.90	1.60
0-30	21.59	2.20	4.10
0-40	41.73	4.20	7.90
0-60	108.76	10.90	20.50
0-80	209.74	21.00	39.50
0-90	267.13	26.70	50.30
10-90	265.60	26.60	50.00
20-40	33.21	3.30	6.30
20-50	62.04	6.20	11.70
40-70	114.12	11.40	21.50
60-80	100.98	10.10	19.00
70-80	53.89	5.40	10.20
80-90	57.39	5.70	10.80
90-110	110.89	11.10	20.90
90-120	157.19	15.70	29.60
90-130	194.50	19.40	36.60
90-150	242.23	24.20	45.60
90-180	263.77	26.40	49.70
110-180	152.88	15.30	28.80
0-180	530.90	53.10	100.00

Total Luminaire Efficiency = 53.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.53
10-20	6.99
20-30	13.07
30-40	20.14
40-50	28.82
50-60	38.21
60-70	47.09
70-80	53.89
80-90	57.39
90-100	57.42
100-110	53.47
110-120	46.30
120-130	37.31
130-140	28.05
140-150	19.69
150-160	12.99
160-170	7.03
170-180	1.52

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	57	57	57	57	53	53	53	53	44	44	44	37	37	37	30	30	30	27
1	49	46	42	39	45	42	39	36	35	32	30	28	26	25	22	21	20	17
2	44	38	34	30	40	35	31	28	29	26	23	23	21	19	18	16	14	12
3	39	33	28	24	35	30	25	22	24	21	18	19	17	14	15	13	11	9
4	35	28	23	19	32	26	21	18	21	18	15	17	14	12	13	11	9	7
5	32	25	20	16	29	23	18	15	19	15	12	15	12	10	11	9	7	5
6	29	22	17	14	27	20	16	12	17	13	10	13	10	8	10	8	6	4
7	27	20	15	12	25	18	14	11	15	11	9	12	9	7	9	7	5	4
8	25	18	13	10	23	16	12	9	13	10	8	11	8	6	8	6	4	3
9	23	16	12	9	21	15	11	8	12	9	7	10	7	5	7	5	4	3
10	22	15	10	8	20	13	10	7	11	8	6	9	6	5	7	5	3	2

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	14.0	15.1	14.9	16.0	17.3	7.1	8.1	8.0	9.1	10.3
	3H	17.5	18.4	18.4	19.4	20.6	9.9	10.9	10.8	11.8	13.1
	4H	19.1	20.0	20.0	21.0	22.2	11.2	12.2	12.2	13.1	14.4
	6H	20.7	21.6	21.7	22.6	23.8	12.6	13.4	13.5	14.4	15.7
	8H	21.5	22.3	22.4	23.3	24.6	13.2	14.0	14.2	15.0	16.3
	12H	22.2	23.0	23.2	24.0	25.3	13.8	14.6	14.8	15.6	16.9

UGR Viewed Endwise

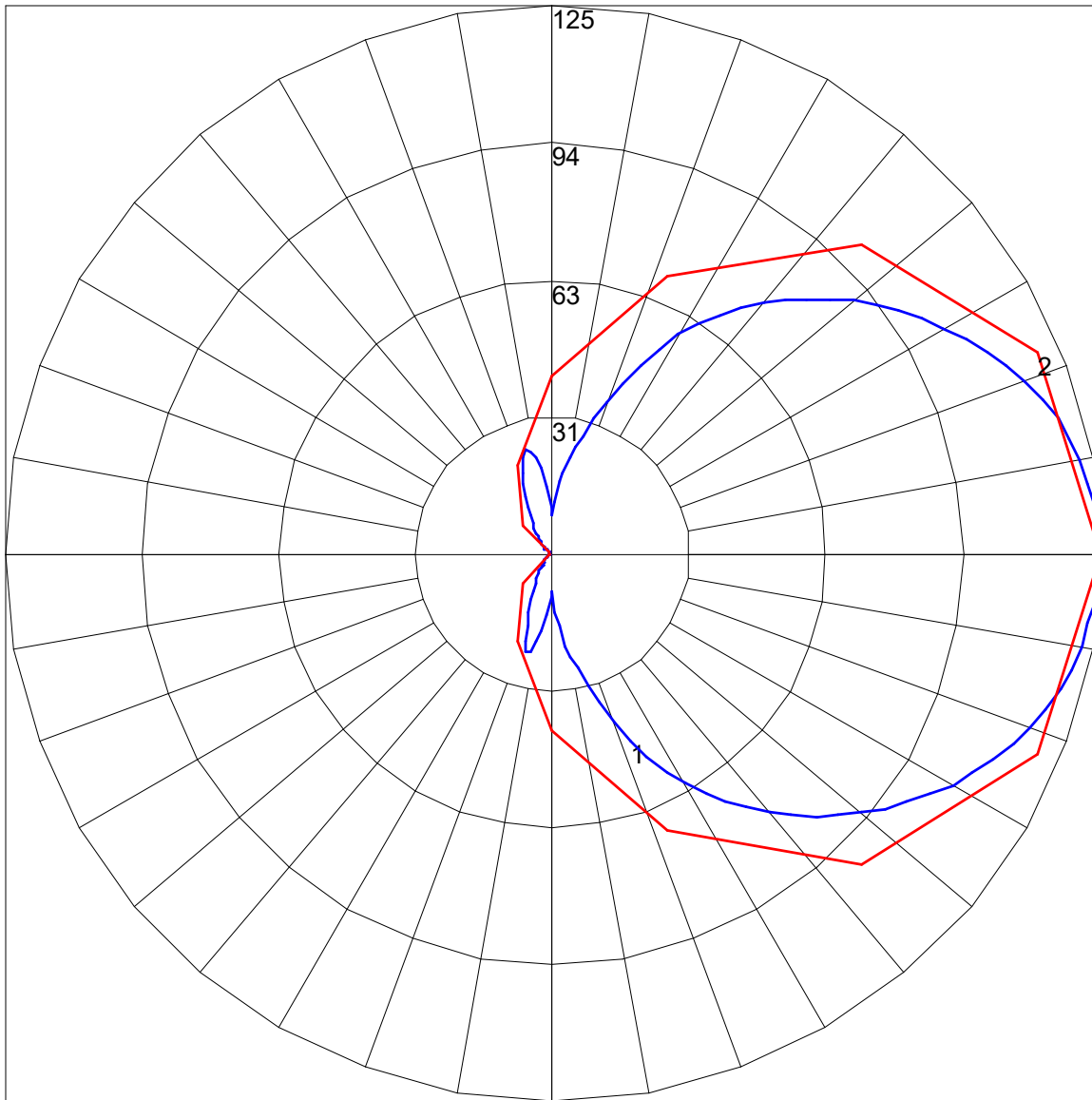
4H	2H	14.5	15.4	15.4	16.4	17.7	9.0	10.0	10.0	10.9	12.2
	3H	18.1	19.0	19.1	19.9	21.2	11.8	12.6	12.8	13.6	14.9
	4H	20.0	20.7	20.9	21.7	23.0	13.2	13.9	14.1	14.9	16.2
	6H	21.8	22.5	22.8	23.5	24.8	14.5	15.2	15.5	16.2	17.5
	8H	22.7	23.3	23.6	24.3	25.7	15.2	15.8	16.1	16.8	18.1
	12H	23.6	24.2	24.5	25.2	26.5	15.8	16.4	16.8	17.4	18.8

8H	4H	20.3	20.9	21.2	21.9	23.2	14.4	15.1	15.4	16.1	17.4
	6H	22.3	22.9	23.3	23.9	25.2	15.9	16.5	16.9	17.5	18.9
	8H	23.4	23.9	24.4	24.9	26.2	16.7	17.2	17.7	18.2	19.6
	12H	24.4	24.9	25.4	25.9	27.3	17.4	17.9	18.4	18.9	20.3

12H	4H	20.3	20.9	21.3	21.9	23.2	14.8	15.4	15.7	16.4	17.7
	6H	22.4	22.9	23.4	23.9	25.3	16.4	16.9	17.4	18.0	19.3
	8H	23.5	24.0	24.5	25.0	26.4	17.3	17.7	18.3	18.7	20.1

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 125.001 Located At Horizontal Angle = 0, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)