



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DCL48H-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.3

[ISSUE DATE]

[TEST DATE] 03/14/2026

[TEST] 1660

[MANUFAC] LAMAR LED

[LUMCAT] DCL48H-50

[LUMINAIRE] FORMED ALUMINUM HOUSING, WHITE SOLID ALUMINUM

[MORE] REFLECTOR W/FROSTED POLYCARBONATE DIFFUSER

[LAMP] ALUMAGROOVE 44" LED linear LED module 5000K (2)

[LAMPCAT]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	44.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.80 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8022	6624	6430
55	7886	6193	5963
65	7670	5325	2887
75	7179	2183	572
85	5501	569	344

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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>
0	2387.056	2387.056	2387.056	2387.056	2387.056
5	2412.473	2391.962	2383.585	2385.665	2401.199
10	2357.265	2374.205	2349.247	2353.177	2351.327
15	2335.491	2315.984	2316.214	2301.885	2287.197
20	2274.130	2247.193	2238.716	2234.499	2219.424
25	2191.942	2174.586	2153.616	2152.067	2147.764
30	2097.935	2080.594	2063.711	2056.525	2053.068
35	1995.867	1971.325	1955.088	1947.214	1949.365
40	1865.499	1844.141	1843.969	1829.697	1834.187
45	1730.326	1721.031	1697.967	1703.403	1706.759
50	1577.367	1561.661	1555.679	1560.140	1563.755
55	1416.031	1404.987	1403.682	1411.341	1414.181
60	1244.612	1232.478	1240.266	1190.308	1024.526
65	1058.147	1054.662	1011.961	633.724	582.403
70	861.484	865.098	617.688	451.547	364.310
75	661.679	616.626	322.456	110.818	91.526
80	456.295	337.430	107.562	75.045	69.910
85	239.723	118.248	57.417	40.807	39.072
90	69.451	39.861	25.230	17.585	13.942

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	879.26	N.A.	12.40
0-30	1876.7	N.A.	26.50
0-40	3104.82	N.A.	43.90
0-60	5672.56	N.A.	80.10
0-80	6969.69	N.A.	98.40
0-90	7079.94	N.A.	100.00
10-90	6852.89	N.A.	96.80
20-40	2225.57	N.A.	31.40
20-50	3544.48	N.A.	50.10
40-70	3457.39	N.A.	48.80
60-80	1297.13	N.A.	18.30
70-80	407.48	N.A.	5.80
80-90	110.25	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7079.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.05
10-20	652.21
20-30	997.45
30-40	1228.12
40-50	1318.91
50-60	1248.82
60-70	889.65
70-80	407.48
80-90	110.25
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

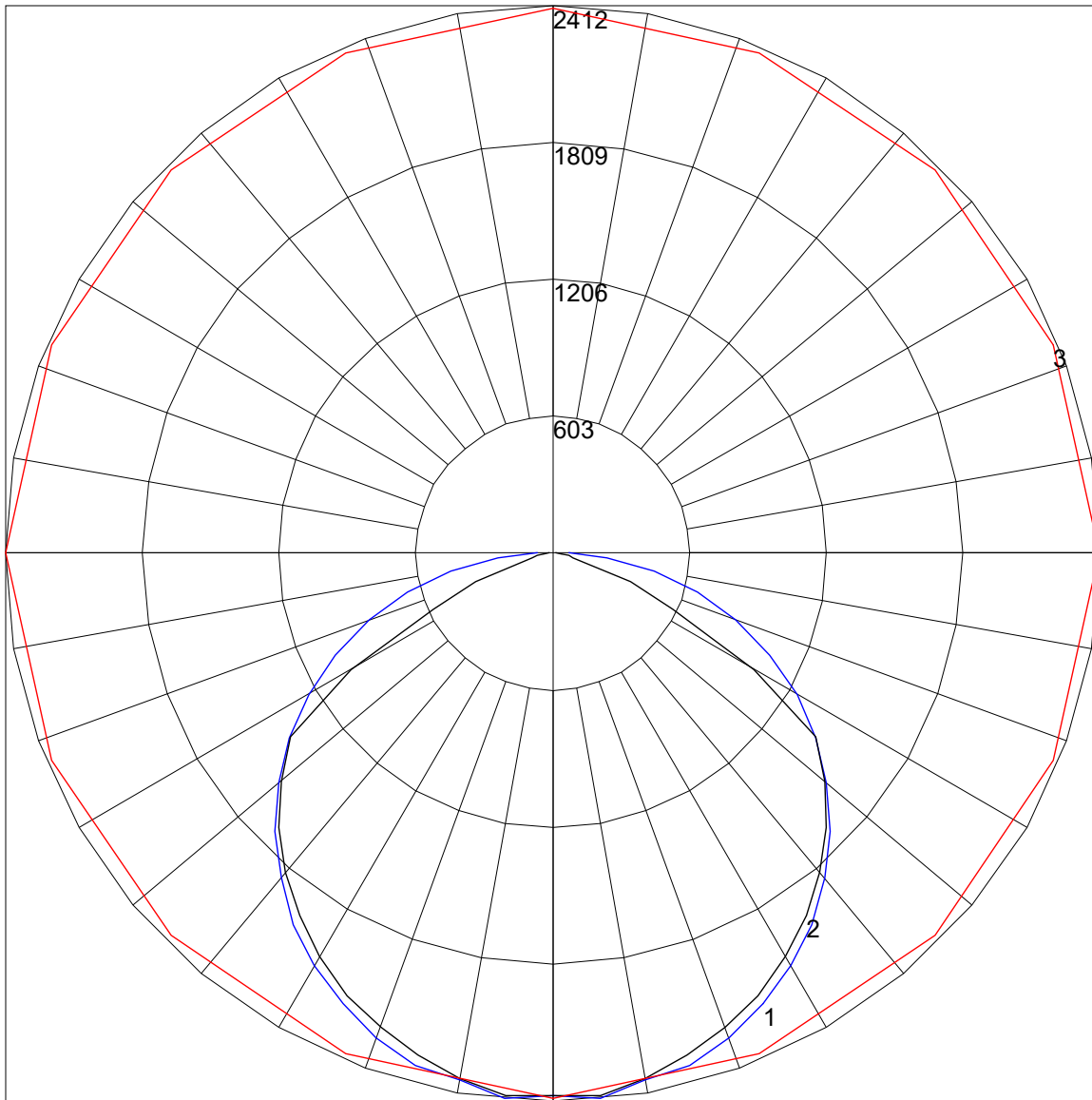
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	18.6	20.3	19.0	20.6	20.9	19.1	20.7	19.4	21.0	21.3
	3H	20.5	22.0	20.9	22.3	22.7	19.7	21.2	20.1	21.5	21.9
	4H	21.2	22.6	21.6	23.0	23.3	19.7	21.1	20.1	21.5	21.8
	6H	21.7	23.0	22.1	23.4	23.7	19.7	21.0	20.1	21.4	21.7
	8H	21.8	23.1	22.3	23.5	23.9	19.7	20.9	20.1	21.3	21.7
	12H	21.9	23.1	22.4	23.5	23.9	19.7	20.8	20.1	21.2	21.7
4H	2H	19.3	20.7	19.7	21.0	21.4	19.6	21.0	20.0	21.4	21.8
	3H	21.3	22.5	21.7	22.9	23.3	20.4	21.6	20.8	22.0	22.4
	4H	22.1	23.1	22.5	23.6	24.0	20.4	21.5	20.8	21.9	22.3
	6H	22.7	23.6	23.1	24.0	24.5	20.4	21.3	20.9	21.8	22.2
	8H	22.9	23.7	23.3	24.1	24.6	20.4	21.3	20.9	21.7	22.2
	12H	23.0	23.7	23.5	24.2	24.7	20.4	21.2	20.9	21.6	22.1
8H	4H	22.1	23.0	22.6	23.4	23.9	20.6	21.4	21.0	21.9	22.3
	6H	22.7	23.5	23.2	24.0	24.4	20.6	21.3	21.0	21.8	22.2
	8H	23.0	23.6	23.5	24.1	24.6	20.6	21.2	21.1	21.7	22.2
	12H	23.2	23.7	23.7	24.2	24.8	20.6	21.1	21.1	21.6	22.2
12H	4H	22.1	22.9	22.6	23.4	23.8	20.6	21.4	21.1	21.8	22.3
	6H	22.7	23.4	23.3	23.8	24.4	20.6	21.2	21.1	21.7	22.2
	8H	23.0	23.5	23.5	24.0	24.6	20.6	21.2	21.1	21.7	22.2

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 2412.473 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)