



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DCL48M-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.3

[ISSUEDATE]

[TESTDATE] 03/14/2026

[TEST] 1659

[MANUFAC] LAMAR LED

[LUMCAT] DCL48M-50

[LUMINAIRE] FORMED ALUMINUM HOUSING, WHITE SOLID ALUMINUM

[MORE] REFLECTOR W/FROSTED POLYCARBONATE DIFFUSER

[LAMP] ALUMAGROOVE 44" LED linear LED module 5000K (1)

[LAMPCAT]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	34.3
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	6272	5179	5027
55	6166	4842	4662
65	5997	4163	2257
75	5613	1707	447
85	4301	445	269

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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	1866.345	1866.345	1866.345	1866.345	1866.345
5	1886.217	1870.180	1863.631	1865.257	1877.402
10	1843.052	1856.297	1836.783	1839.856	1838.409
15	1826.028	1810.777	1810.956	1799.753	1788.269
20	1778.052	1756.991	1750.364	1747.066	1735.280
25	1713.793	1700.223	1683.827	1682.616	1679.252
30	1640.292	1626.734	1613.534	1607.916	1605.213
35	1560.489	1541.301	1528.606	1522.449	1524.131
40	1458.560	1441.861	1441.726	1430.568	1434.078
45	1352.873	1345.606	1327.573	1331.823	1334.448
50	1233.281	1221.001	1216.324	1219.812	1222.638
55	1107.139	1098.504	1097.483	1103.472	1105.692
60	973.113	963.626	969.715	930.655	801.036
65	827.323	824.598	791.212	495.483	455.358
70	673.560	676.386	482.946	353.047	284.840
75	517.341	482.116	252.115	86.644	71.560
80	356.759	263.823	84.098	58.675	54.660
85	187.430	92.453	44.892	31.906	30.549
90	54.301	31.165	19.726	13.749	10.901

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	687.46	N.A.	12.40
0-30	1467.32	N.A.	26.50
0-40	2427.54	N.A.	43.90
0-60	4435.15	N.A.	80.10
0-80	5449.32	N.A.	98.40
0-90	5535.52	N.A.	100.00
10-90	5358.00	N.A.	96.80
20-40	1740.08	N.A.	31.40
20-50	2771.29	N.A.	50.10
40-70	2703.19	N.A.	48.80
60-80	1014.17	N.A.	18.30
70-80	318.59	N.A.	5.80
80-90	86.20	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	5535.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	177.52
10-20	509.94
20-30	779.86
30-40	960.22
40-50	1031.21
50-60	976.41
60-70	695.58
70-80	318.59
80-90	86.20
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	57	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

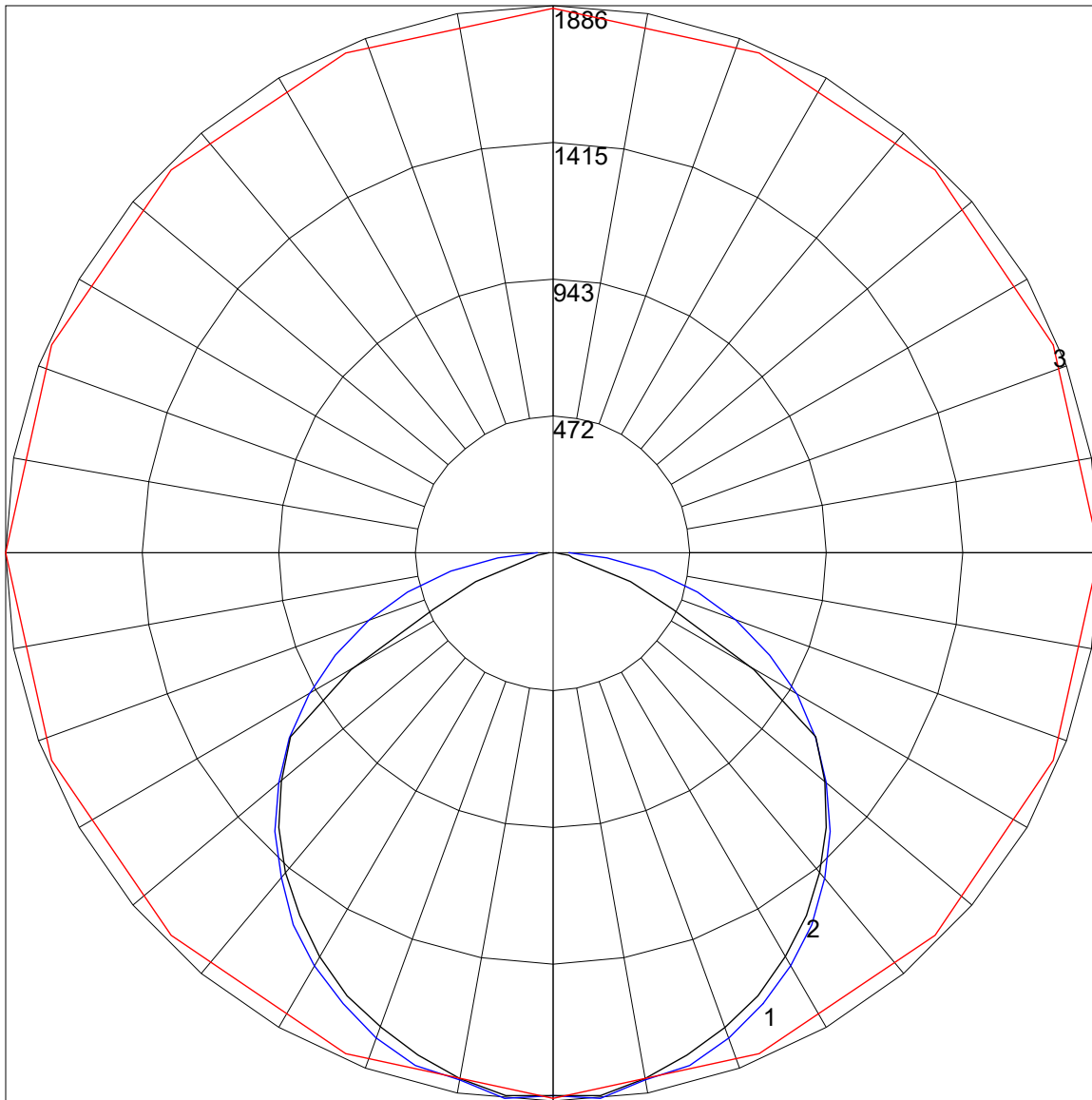
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UGR TABLE - CORRECTED

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	17.7	19.4	18.1	19.7	20.0	18.2	19.8	18.5	20.1	20.4
	3H	19.6	21.1	20.0	21.4	21.8	18.8	20.3	19.2	20.6	21.0
	4H	20.3	21.7	20.7	22.1	22.4	18.8	20.2	19.2	20.6	20.9
	6H	20.8	22.1	21.2	22.5	22.8	18.8	20.1	19.2	20.5	20.8
	8H	20.9	22.2	21.4	22.6	23.0	18.8	20.0	19.2	20.4	20.8
	12H	21.0	22.2	21.5	22.6	23.0	18.8	20.0	19.2	20.3	20.8
4H	2H	18.4	19.8	18.8	20.1	20.5	18.7	20.1	19.1	20.5	20.9
	3H	20.4	21.6	20.8	22.0	22.4	19.5	20.7	19.9	21.1	21.5
	4H	21.2	22.2	21.6	22.7	23.1	19.5	20.6	19.9	21.0	21.4
	6H	21.8	22.7	22.2	23.1	23.6	19.5	20.4	20.0	20.9	21.3
	8H	22.0	22.8	22.4	23.2	23.7	19.5	20.4	20.0	20.8	21.3
	12H	22.1	22.8	22.6	23.3	23.8	19.5	20.3	20.0	20.7	21.2
8H	4H	21.2	22.1	21.7	22.5	23.0	19.7	20.5	20.1	21.0	21.4
	6H	21.8	22.6	22.3	23.1	23.5	19.7	20.4	20.1	20.9	21.3
	8H	22.1	22.7	22.6	23.2	23.7	19.7	20.3	20.2	20.8	21.3
	12H	22.3	22.8	22.8	23.3	23.9	19.7	20.2	20.2	20.7	21.3
12H	4H	21.2	22.0	21.7	22.5	22.9	19.7	20.5	20.2	20.9	21.4
	6H	21.8	22.5	22.4	22.9	23.5	19.7	20.3	20.2	20.8	21.3
	8H	22.1	22.6	22.6	23.1	23.7	19.7	20.3	20.2	20.8	21.3

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1886.217 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.)