



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DCL48L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.3

[ISSUE DATE]

[TEST DATE] 03/14/2026

[TEST] 1658

[MANUFACT] LAMAR LED

[LUMCAT] DCL48L-50

[LUMINAIRE] FORMED ALUMINUM HOUSING, WHITE SOLID ALUMINUM

[MORE] REFLECTOR W/FROSTED POLYCARBONATE DIFFUSER

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

[LAMP CAT]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3548
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	167
Total Luminaire Watts	21.2
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	4021	3320	3223
55	3953	3104	2988
65	3844	2669	1447
75	3598	1094	286
85	2757	285	172

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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	1196.401	1196.401	1196.401	1196.401	1196.401
5	1209.140	1198.859	1194.661	1195.703	1203.489
10	1181.469	1189.959	1177.450	1179.420	1178.493
15	1170.556	1160.779	1160.894	1153.712	1146.351
20	1139.802	1126.301	1122.052	1119.938	1112.383
25	1098.609	1089.910	1079.400	1078.623	1076.467
30	1051.492	1042.800	1034.339	1030.737	1029.005
35	1000.335	988.035	979.897	975.950	977.028
40	934.994	924.290	924.203	917.050	919.301
45	867.245	862.587	851.027	853.751	855.434
50	790.582	782.710	779.712	781.948	783.759
55	709.720	704.184	703.530	707.369	708.792
60	623.804	617.722	621.626	596.586	513.496
65	530.347	528.600	507.198	317.624	291.902
70	431.779	433.590	309.587	226.317	182.593
75	331.636	309.055	161.616	55.542	45.873
80	228.696	169.121	53.910	37.613	35.039
85	120.150	59.266	28.778	20.453	19.583
90	34.809	19.978	12.645	8.814	6.988

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	440.69	N.A.	12.40
0-30	940.61	N.A.	26.50
0-40	1556.15	N.A.	43.90
0-60	2843.11	N.A.	80.10
0-80	3493.23	N.A.	98.40
0-90	3548.49	N.A.	100.00
10-90	3434.69	N.A.	96.80
20-40	1115.46	N.A.	31.40
20-50	1776.51	N.A.	50.10
40-70	1732.85	N.A.	48.80
60-80	650.12	N.A.	18.30
70-80	204.23	N.A.	5.80
80-90	55.26	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	3548.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.80
10-20	326.89
20-30	499.92
30-40	615.54
40-50	661.04
50-60	625.91
60-70	445.90
70-80	204.23
80-90	55.26
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	60	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

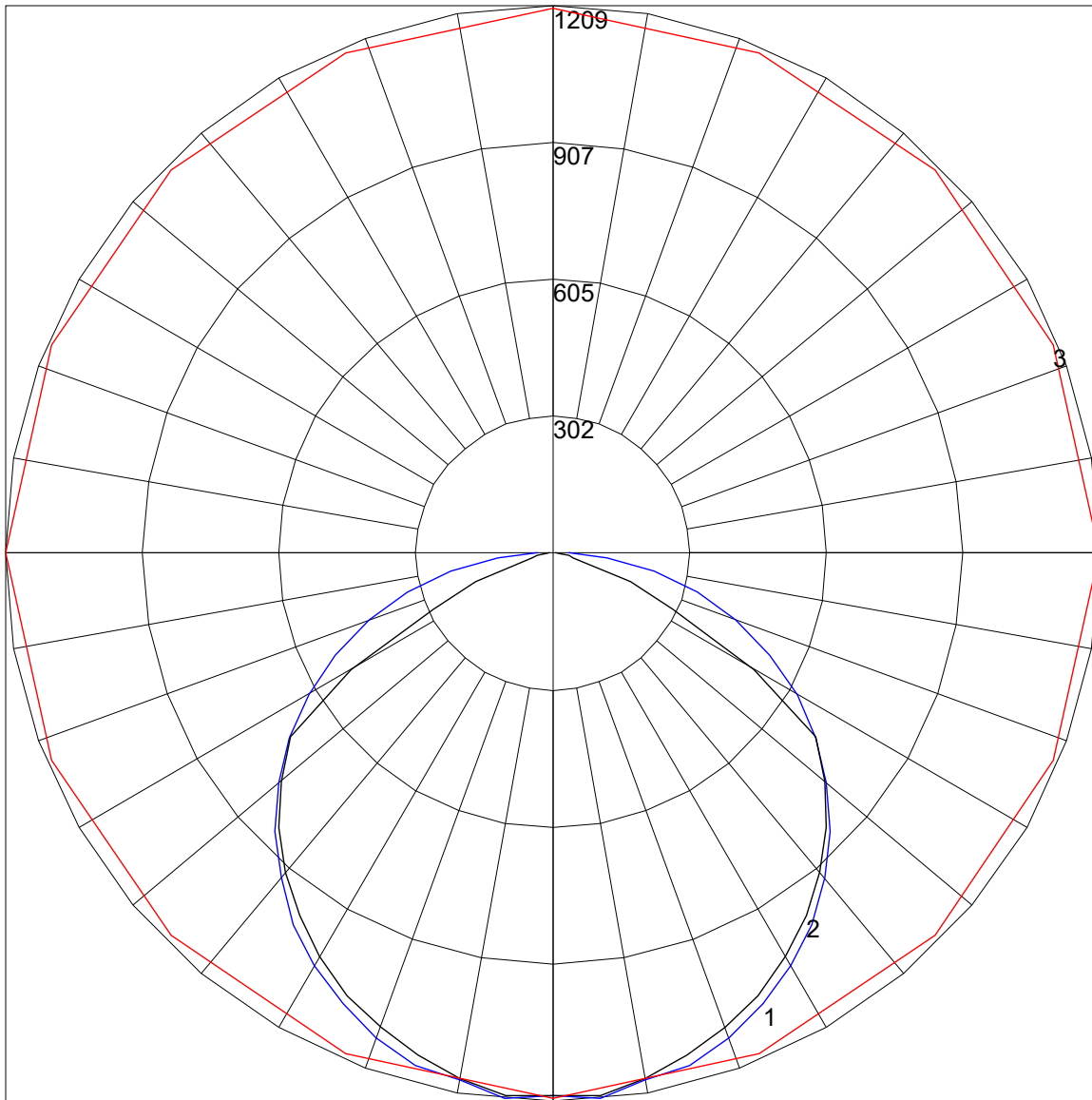
Reflectances

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	16.2	17.9	16.6	18.2	18.5	16.7	18.3	17.0	18.6	18.9
	3H	18.1	19.6	18.5	19.9	20.3	17.3	18.8	17.7	19.1	19.5
	4H	18.8	20.2	19.2	20.6	20.9	17.3	18.7	17.7	19.1	19.4
	6H	19.3	20.6	19.7	21.0	21.3	17.3	18.6	17.7	19.0	19.3
	8H	19.4	20.7	19.9	21.1	21.5	17.3	18.5	17.7	18.9	19.3
	12H	19.5	20.7	20.0	21.1	21.5	17.3	18.4	17.7	18.8	19.3
4H	2H	16.9	18.3	17.3	18.6	19.0	17.2	18.6	17.6	19.0	19.4
	3H	18.9	20.1	19.3	20.5	20.9	18.0	19.2	18.4	19.6	20.0
	4H	19.7	20.7	20.1	21.2	21.6	18.0	19.1	18.4	19.5	19.9
	6H	20.3	21.2	20.7	21.6	22.1	18.0	18.9	18.5	19.4	19.8
	8H	20.5	21.3	20.9	21.7	22.2	18.0	18.9	18.5	19.3	19.8
	12H	20.6	21.3	21.1	21.8	22.3	18.0	18.8	18.5	19.2	19.7
8H	4H	19.7	20.6	20.2	21.0	21.5	18.2	19.0	18.6	19.5	19.9
	6H	20.3	21.1	20.8	21.6	22.0	18.2	18.9	18.6	19.4	19.8
	8H	20.6	21.2	21.1	21.7	22.2	18.2	18.8	18.7	19.3	19.8
	12H	20.8	21.3	21.3	21.8	22.4	18.2	18.7	18.7	19.2	19.8
12H	4H	19.7	20.5	20.2	21.0	21.4	18.2	19.0	18.7	19.4	19.9
	6H	20.3	21.0	20.9	21.4	22.0	18.2	18.8	18.7	19.3	19.8
	8H	20.6	21.1	21.1	21.6	22.2	18.2	18.8	18.7	19.3	19.8

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1209.14 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.)