



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DCL48VH-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.3

[ISSUE DATE]

[TEST DATE] 03/14/2026

[TEST] 1661

[MANUFAC] LAMAR LED

[LUMCAT] DCL48VH-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	13612
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
Total Luminaire Watts	81.8
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	15423	12735	12362
55	15162	11907	11463
65	14746	10237	5551
75	13802	4197	1099
85	10576	1095	661

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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	4589.226	4589.226	4589.226	4589.226	4589.226
5	4638.090	4598.657	4582.552	4586.551	4616.415
10	4531.950	4564.518	4516.535	4524.091	4520.534
15	4490.090	4452.587	4453.028	4425.479	4397.241
20	4372.120	4320.332	4304.035	4295.927	4266.945
25	4214.109	4180.742	4140.426	4137.448	4129.175
30	4033.376	4000.037	3967.580	3953.764	3947.118
35	3837.145	3789.963	3758.747	3743.608	3747.744
40	3586.507	3545.446	3545.115	3517.677	3526.309
45	3326.631	3308.762	3264.419	3274.871	3281.324
50	3032.560	3002.365	2990.865	2999.441	3006.391
55	2722.385	2701.152	2698.643	2713.368	2718.828
60	2392.825	2369.495	2384.469	2288.422	1969.699
65	2034.337	2027.636	1945.542	1218.363	1119.696
70	1656.242	1663.191	1187.533	868.120	700.403
75	1272.108	1185.492	619.936	213.052	175.962
80	877.248	648.725	206.792	144.278	134.405
85	460.878	227.337	110.387	78.454	75.117
90	133.523	76.634	48.506	33.808	26.804

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1690.41	N.A.	12.40
0-30	3608.05	N.A.	26.50
0-40	5969.17	N.A.	43.90
0-60	10905.76	N.A.	80.10
0-80	13399.55	N.A.	98.40
0-90	13611.5	N.A.	100.00
10-90	13175.00	N.A.	96.80
20-40	4278.76	N.A.	31.40
20-50	6814.43	N.A.	50.10
40-70	6646.99	N.A.	48.80
60-80	2493.79	N.A.	18.30
70-80	783.39	N.A.	5.80
80-90	211.96	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	13611.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	436.51
10-20	1253.91
20-30	1917.64
30-40	2361.12
40-50	2535.67
50-60	2400.92
60-70	1710.39
70-80	783.39
80-90	211.96
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

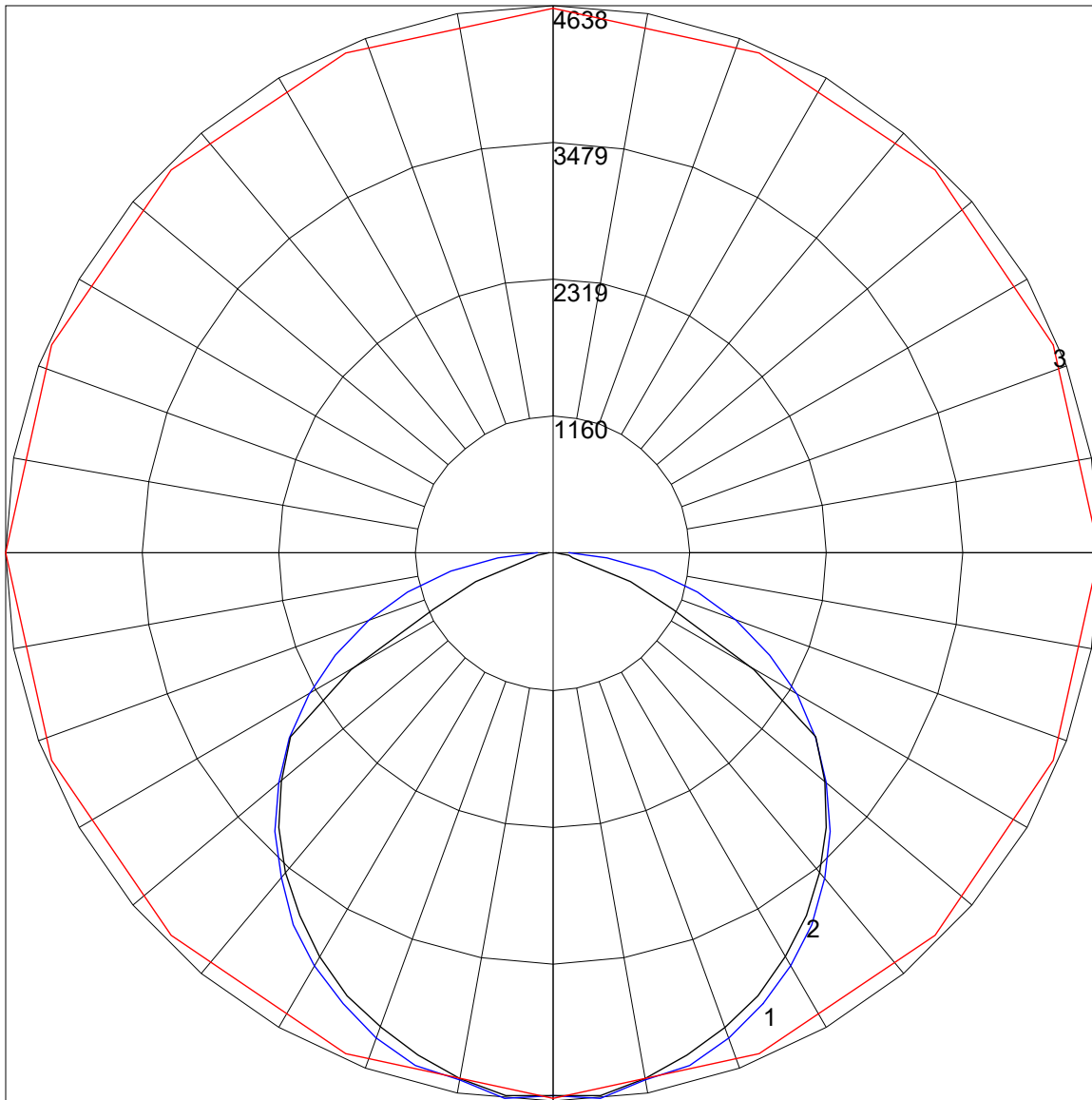
Reflectances

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	20.9	22.6	21.3	22.9	23.2	21.4	23.0	21.7	23.3	23.6
	3H	22.8	24.3	23.2	24.6	25.0	22.0	23.5	22.4	23.8	24.2
	4H	23.5	24.9	23.9	25.3	25.6	22.0	23.4	22.4	23.8	24.1
	6H	24.0	25.3	24.4	25.7	26.0	22.0	23.3	22.4	23.7	24.0
	8H	24.1	25.4	24.6	25.8	26.2	22.0	23.2	22.4	23.6	24.0
	12H	24.2	25.4	24.7	25.8	26.2	22.0	23.2	22.4	23.5	24.0
4H	2H	21.6	23.0	22.0	23.3	23.7	21.9	23.3	22.3	23.7	24.1
	3H	23.6	24.8	24.0	25.2	25.6	22.7	23.9	23.1	24.3	24.7
	4H	24.4	25.4	24.8	25.9	26.3	22.7	23.8	23.1	24.2	24.6
	6H	25.0	25.9	25.4	26.3	26.8	22.7	23.6	23.2	24.1	24.5
	8H	25.2	26.0	25.6	26.4	26.9	22.7	23.6	23.2	24.0	24.5
	12H	25.3	26.0	25.8	26.5	27.0	22.7	23.5	23.2	23.9	24.4
8H	4H	24.4	25.3	24.9	25.7	26.2	22.9	23.7	23.3	24.2	24.6
	6H	25.0	25.8	25.5	26.3	26.7	22.9	23.6	23.3	24.1	24.5
	8H	25.3	25.9	25.8	26.4	26.9	22.9	23.5	23.4	24.0	24.5
	12H	25.5	26.0	26.0	26.5	27.1	22.9	23.4	23.4	23.9	24.5
12H	4H	24.4	25.2	24.9	25.7	26.1	22.9	23.7	23.4	24.1	24.6
	6H	25.0	25.7	25.6	26.1	26.7	22.9	23.5	23.4	24.0	24.5
	8H	25.3	25.8	25.8	26.3	26.9	22.9	23.5	23.4	24.0	24.5

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 4638.09 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.)