



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L81-840-FVLF-(L67)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 21040.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 08-22-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2X4 RECESSED VANDAL LED LUMINAIRE
 [MORE] CLEAR POLYCARB LENS w/FROSTED PRISMATIC PAT12
 [LUMCAT] V50G-S24-L81-840-FVLF-(L67)-EM10W-DIM-UNV
 [LAMP] 56 LED ARRAY ON 22 INCH BOARD
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.76 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	678	632	621
55	503	462	447
65	368	333	335
75	259	237	236
85	118	92	67

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	552.866	552.866	552.866	552.866	552.866
5	554.103	552.296	548.968	546.685	547.541
10	545.544	543.928	540.980	538.983	539.934
15	531.376	530.139	527.287	525.099	525.385
20	511.121	509.885	507.698	505.320	504.940
25	485.256	483.639	480.691	478.885	478.599
30	451.688	449.026	443.130	442.464	442.464
35	409.467	405.759	399.007	398.056	396.820
40	359.354	350.700	343.378	339.289	337.292
45	297.068	290.317	276.528	271.584	272.059
50	235.639	230.409	213.958	210.154	210.820
55	178.583	174.589	164.129	159.089	158.709
60	133.510	130.371	122.384	118.485	120.387
65	96.328	93.761	87.105	87.580	87.580
70	67.706	65.994	60.764	61.144	61.049
75	41.555	40.795	37.942	36.896	37.752
80	20.825	18.733	17.022	16.926	17.117
85	6.371	5.706	4.945	4.850	3.614
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	200.99	N.A.	17.00
0-30	422.00	N.A.	35.80
0-40	671.33	N.A.	56.90
0-60	1039.58	N.A.	88.10
0-80	1172.36	N.A.	99.40
0-90	1180.02	N.A.	100.00
10-90	1127.8	N.A.	95.60
20-40	470.34	N.A.	39.90
20-50	687.35	N.A.	58.20
40-70	459.22	N.A.	38.90
60-80	132.78	N.A.	11.30
70-80	41.81	N.A.	3.50
80-90	7.66	N.A.	0.60
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	1180.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.22
10-20	148.77
20-30	221.01
30-40	249.33
40-50	217.01
50-60	151.24
60-70	90.96
70-80	41.81
80-90	7.66
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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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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	8.8	10.3	9.2	10.6	10.9	8.2	9.6	8.5	10.0	10.3
	3H	10.0	11.4	10.4	11.7	12.0	9.4	10.7	9.8	11.0	11.4
	4H	10.4	11.7	10.8	12.0	12.4	9.8	11.0	10.2	11.3	11.7
	6H	10.6	11.8	11.0	12.1	12.5	9.9	11.1	10.4	11.5	11.8
	8H	10.7	11.8	11.1	12.1	12.5	10.0	11.1	10.4	11.4	11.9
	12H	10.7	11.7	11.1	12.1	12.5	10.0	11.0	10.4	11.4	11.8

UGR Viewed Endwise

4H	2H	9.1	10.4	9.5	10.7	11.1	8.6	9.8	9.0	10.2	10.5
	3H	10.6	11.6	11.0	12.0	12.4	10.0	11.0	10.4	11.4	11.8
	4H	11.0	12.0	11.5	12.4	12.8	10.5	11.4	10.9	11.8	12.2
	6H	11.3	12.1	11.8	12.6	13.0	10.7	11.5	11.2	12.0	12.4
	8H	11.4	12.1	11.9	12.6	13.0	10.8	11.5	11.2	12.0	12.4
	12H	11.4	12.1	11.9	12.6	13.0	10.8	11.4	11.2	11.9	12.4

8H	4H	11.2	11.9	11.6	12.3	12.8	10.6	11.4	11.1	11.8	12.3
	6H	11.5	12.1	12.0	12.6	13.1	10.9	11.5	11.4	12.0	12.5
	8H	11.6	12.1	12.1	12.6	13.1	11.0	11.5	11.5	12.1	12.5
	12H	11.6	12.1	12.1	12.6	13.2	11.0	11.5	11.5	12.0	12.6

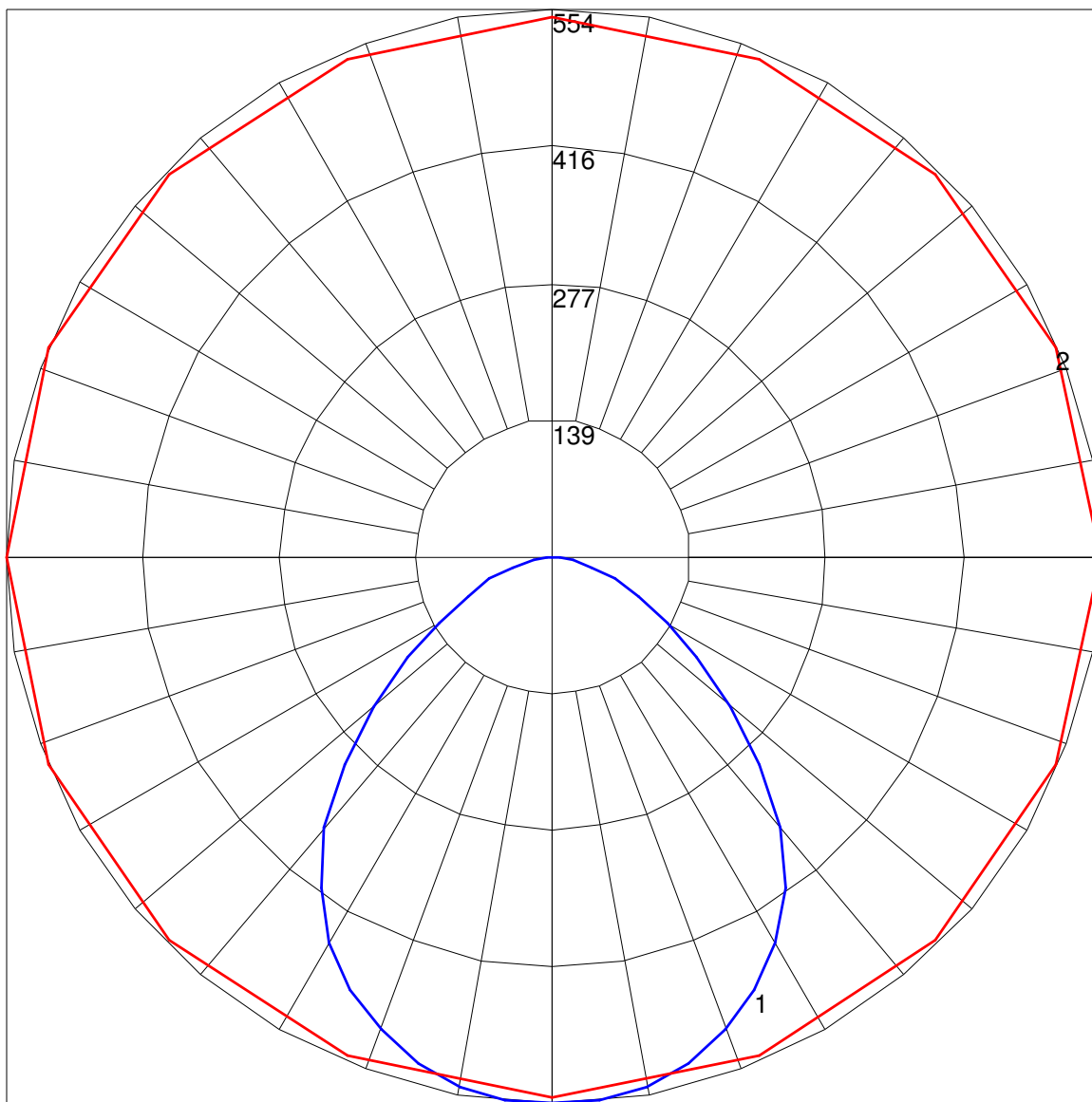
12H	4H	11.1	11.8	11.6	12.3	12.8	10.6	11.3	11.1	11.8	12.2
	6H	11.5	12.0	12.0	12.5	13.0	10.9	11.5	11.5	11.9	12.5
	8H	11.6	12.1	12.1	12.6	13.1	11.0	11.5	11.5	12.0	12.6

Maximum UGR = 13.2

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POLAR GRAPH



Maximum Candela = 554.103 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)