



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L81-840-FVLF-(L67)-DIM-UNV\_.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] 08-21-2023  
 [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)-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	6926
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	58.8
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	3982	3707	3647
55	2951	2712	2623
65	2161	1954	1964
75	1522	1390	1383
85	693	538	393

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	3245.045	3245.045	3245.045	3245.045	3245.045
<b>5</b>	3252.301	3241.696	3222.161	3208.766	3213.789
<b>10</b>	3202.068	3192.580	3175.277	3163.556	3169.138
<b>15</b>	3118.905	3111.649	3094.905	3082.067	3083.742
<b>20</b>	3000.020	2992.764	2979.927	2965.974	2963.741
<b>25</b>	2848.205	2838.717	2821.414	2810.810	2809.135
<b>30</b>	2651.181	2635.553	2600.948	2597.041	2597.041
<b>35</b>	2403.365	2381.598	2341.969	2336.388	2329.132
<b>40</b>	2109.224	2058.433	2015.456	1991.455	1979.734
<b>45</b>	1743.640	1704.012	1623.081	1594.057	1596.848
<b>50</b>	1383.079	1352.381	1255.822	1233.497	1237.404
<b>55</b>	1048.193	1024.751	963.355	933.774	931.541
<b>60</b>	783.633	765.214	718.330	695.447	706.609
<b>65</b>	565.399	550.329	511.259	514.050	514.050
<b>70</b>	397.398	387.351	356.654	358.886	358.328
<b>75</b>	243.909	239.443	222.699	216.560	221.583
<b>80</b>	122.233	109.954	99.908	99.350	100.466
<b>85</b>	37.396	33.489	29.023	28.465	21.209
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1179.73	N.A.	17.00
0-30	2476.92	N.A.	35.80
0-40	3940.37	N.A.	56.90
0-60	6101.82	N.A.	88.10
0-80	6881.16	N.A.	99.40
0-90	6926.13	N.A.	100.00
10-90	6619.62	N.A.	95.60
20-40	2760.64	N.A.	39.90
20-50	4034.38	N.A.	58.20
40-70	2695.37	N.A.	38.90
60-80	779.34	N.A.	11.30
70-80	245.42	N.A.	3.50
80-90	44.97	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	6926.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	306.52
10-20	873.21
20-30	1297.19
30-40	1463.45
40-50	1273.74
50-60	887.71
60-70	533.92
70-80	245.42
80-90	44.97
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	14.9	16.4	15.3	16.7	17.0	14.3	15.7	14.6	16.1	16.4
	3H	16.2	17.5	16.5	17.8	18.2	15.5	16.8	15.9	17.1	17.5
	4H	16.5	17.8	16.9	18.1	18.5	15.9	17.1	16.3	17.4	17.8
	6H	16.7	17.9	17.1	18.2	18.6	16.0	17.2	16.5	17.6	17.9
	8H	16.8	17.9	17.2	18.2	18.6	16.1	17.2	16.5	17.5	18.0
	12H	16.8	17.8	17.2	18.2	18.6	16.1	17.1	16.5	17.5	17.9

### UGR Viewed Endwise

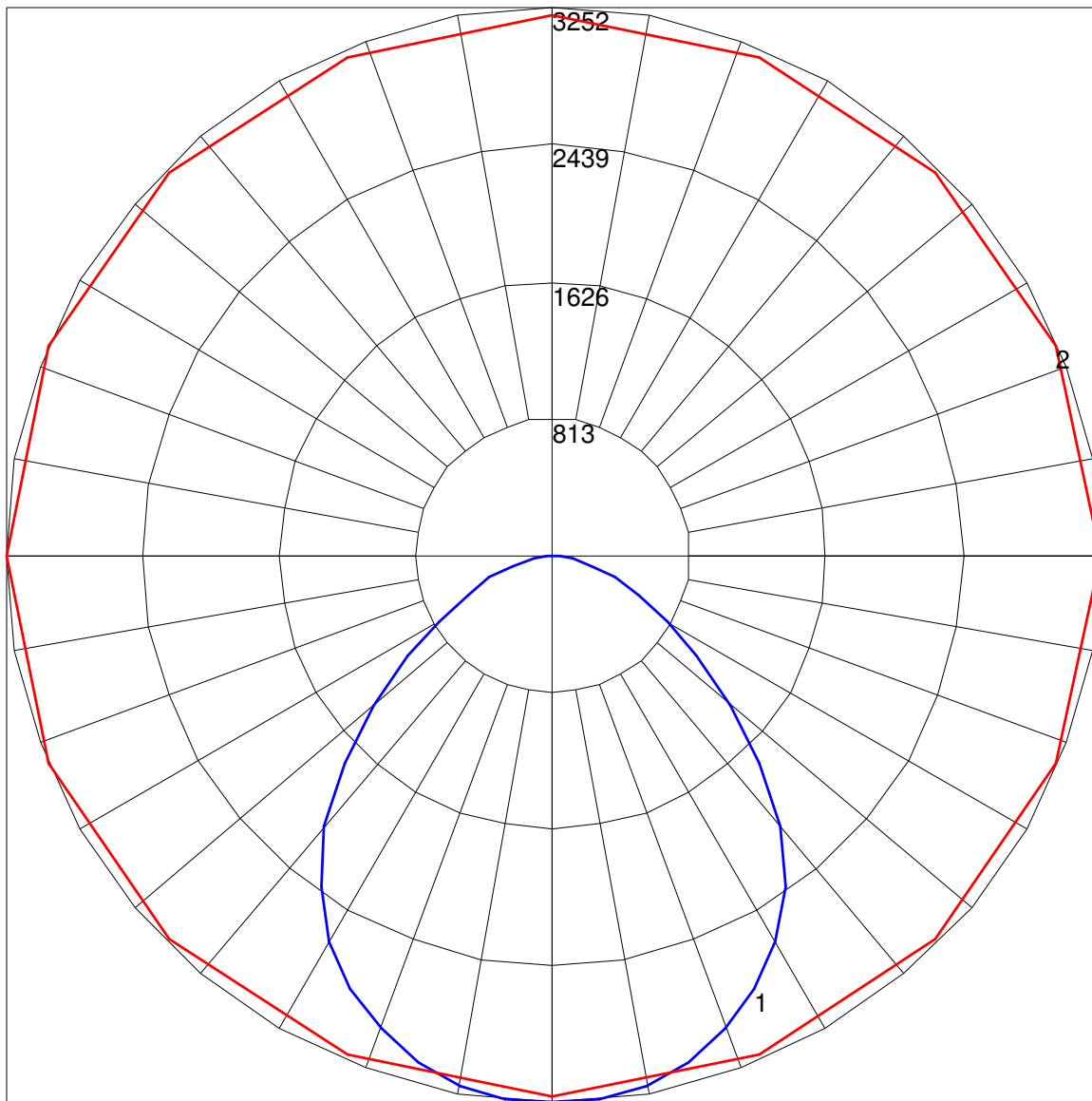
4H	2H	15.2	16.5	15.6	16.8	17.2	14.7	15.9	15.1	16.3	16.6
	3H	16.7	17.7	17.1	18.1	18.5	16.1	17.1	16.5	17.5	17.9
	4H	17.1	18.1	17.6	18.5	18.9	16.6	17.5	17.0	17.9	18.3
	6H	17.4	18.2	17.9	18.7	19.1	16.8	17.6	17.3	18.1	18.5
	8H	17.5	18.2	18.0	18.7	19.2	16.9	17.6	17.3	18.1	18.5
	12H	17.5	18.2	18.0	18.7	19.1	16.9	17.5	17.4	18.0	18.5

8H	4H	17.3	18.0	17.7	18.4	18.9	16.7	17.5	17.2	17.9	18.4
	6H	17.6	18.2	18.1	18.7	19.2	17.0	17.6	17.5	18.1	18.6
	8H	17.7	18.2	18.2	18.7	19.2	17.1	17.6	17.6	18.2	18.6
	12H	17.7	18.2	18.2	18.7	19.3	17.1	17.6	17.6	18.1	18.7

12H	4H	17.2	17.9	17.7	18.4	18.9	16.7	17.4	17.2	17.9	18.3
	6H	17.6	18.1	18.1	18.6	19.1	17.0	17.6	17.6	18.0	18.6
	8H	17.7	18.2	18.2	18.7	19.2	17.1	17.6	17.6	18.1	18.7

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 3252.301 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.)