



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L56-840-FVLF-(L46)-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] 08-21-2024  
 [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-L56-840-FVLF-(L46)-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	1264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	727	677	666
55	539	495	479
65	394	357	358
75	278	254	252
85	126	98	72

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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>	592.223	592.223	592.223	592.223	592.223
<b>5</b>	593.548	591.612	588.047	585.602	586.519
<b>10</b>	584.380	582.648	579.491	577.352	578.370
<b>15</b>	569.203	567.878	564.823	562.480	562.785
<b>20</b>	547.506	546.182	543.839	541.293	540.885
<b>25</b>	519.800	518.068	514.910	512.975	512.669
<b>30</b>	483.843	480.990	474.675	473.962	473.962
<b>35</b>	438.616	434.643	427.411	426.393	425.068
<b>40</b>	384.935	375.666	367.822	363.442	361.303
<b>45</b>	318.216	310.983	296.214	290.917	291.426
<b>50</b>	252.413	246.811	229.189	225.114	225.827
<b>55</b>	191.296	187.018	175.813	170.414	170.007
<b>60</b>	143.014	139.652	131.096	126.920	128.957
<b>65</b>	103.186	100.436	93.305	93.815	93.815
<b>70</b>	72.525	70.692	65.090	65.497	65.395
<b>75</b>	44.514	43.699	40.643	39.522	40.439
<b>80</b>	22.308	20.067	18.233	18.131	18.335
<b>85</b>	6.825	6.112	5.297	5.195	3.871
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	215.30	N.A.	17.00
0-30	452.04	N.A.	35.80
0-40	719.12	N.A.	56.90
0-60	1113.59	N.A.	88.10
0-80	1255.82	N.A.	99.40
0-90	1264.02	N.A.	100.00
10-90	1208.09	N.A.	95.60
20-40	503.82	N.A.	39.90
20-50	736.28	N.A.	58.20
40-70	491.91	N.A.	38.90
60-80	142.23	N.A.	11.30
70-80	44.79	N.A.	3.50
80-90	8.21	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	1264.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.94
10-20	159.36
20-30	236.74
30-40	267.08
40-50	232.46
50-60	162.01
60-70	97.44
70-80	44.79
80-90	8.21
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	9.0	10.5	9.4	10.8	11.1	8.4	9.8	8.7	10.2	10.5
	3H	10.2	11.6	10.6	11.9	12.2	9.6	10.9	10.0	11.2	11.6
	4H	10.6	11.9	11.0	12.2	12.6	10.0	11.2	10.4	11.5	11.9
	6H	10.8	12.0	11.2	12.3	12.7	10.1	11.3	10.6	11.7	12.0
	8H	10.9	12.0	11.3	12.3	12.7	10.2	11.3	10.6	11.6	12.1
	12H	10.9	11.9	11.3	12.3	12.7	10.2	11.2	10.6	11.6	12.0

### UGR Viewed Endwise

4H	2H	9.3	10.6	9.7	10.9	11.3	8.8	10.0	9.2	10.4	10.7
	3H	10.8	11.8	11.2	12.2	12.6	10.2	11.2	10.6	11.6	12.0
	4H	11.2	12.2	11.7	12.6	13.0	10.7	11.6	11.1	12.0	12.4
	6H	11.5	12.3	12.0	12.8	13.2	10.9	11.7	11.4	12.2	12.6
	8H	11.6	12.3	12.1	12.8	13.2	11.0	11.7	11.4	12.2	12.6
	12H	11.6	12.3	12.1	12.8	13.2	11.0	11.6	11.4	12.1	12.6

8H	4H	11.4	12.1	11.8	12.5	13.0	10.8	11.6	11.3	12.0	12.5
	6H	11.7	12.3	12.2	12.8	13.3	11.1	11.7	11.6	12.2	12.7
	8H	11.8	12.3	12.3	12.8	13.3	11.2	11.7	11.7	12.3	12.7
	12H	11.8	12.3	12.3	12.8	13.4	11.2	11.7	11.7	12.2	12.8

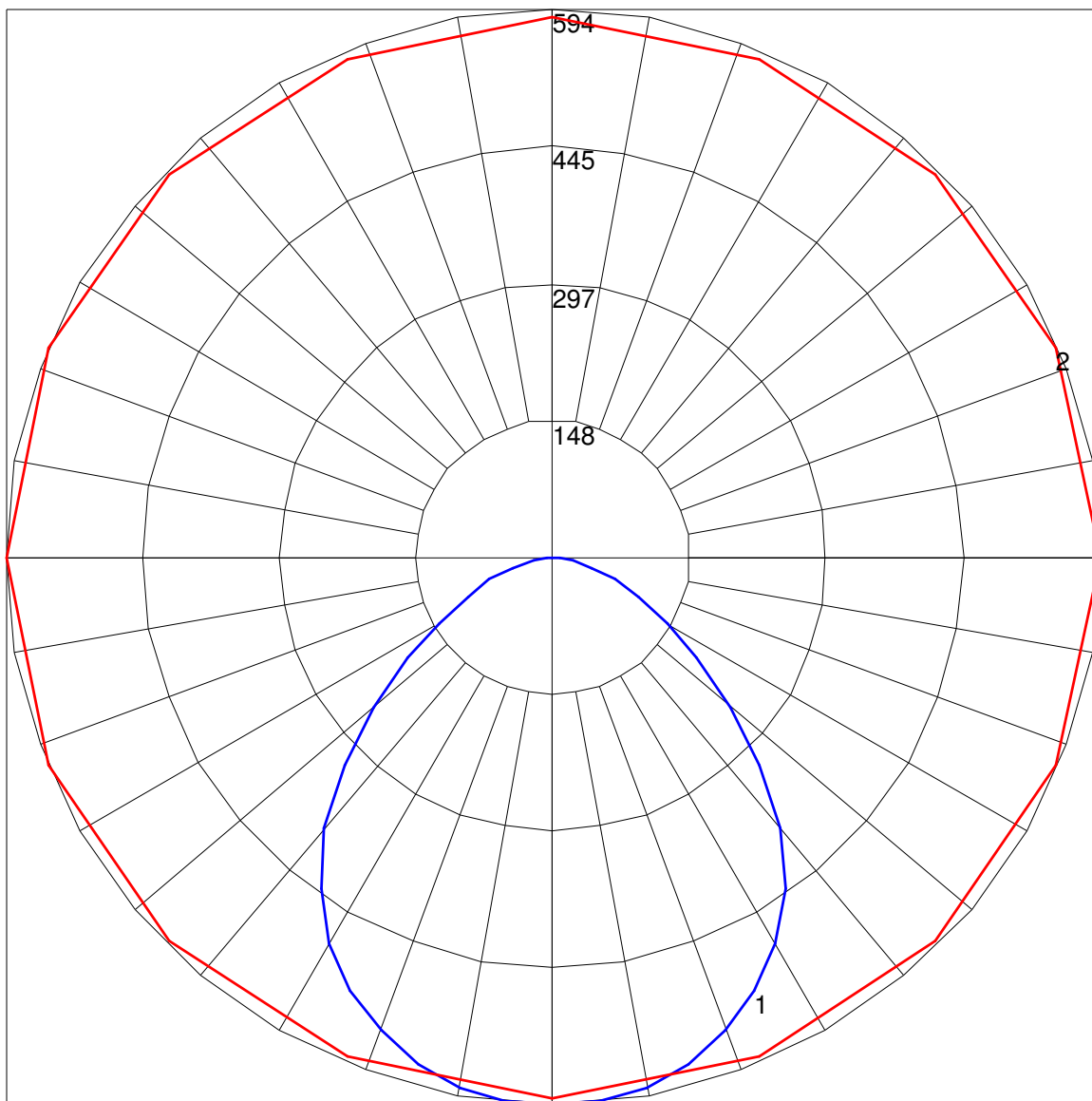
12H	4H	11.3	12.0	11.8	12.5	13.0	10.8	11.5	11.3	12.0	12.4
	6H	11.7	12.2	12.2	12.7	13.2	11.1	11.7	11.7	12.1	12.7
	8H	11.8	12.3	12.3	12.8	13.3	11.2	11.7	11.7	12.2	12.8

Maximum UGR = 13.4

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## POLAR GRAPH



Maximum Candela = 593.548 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.)