



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L56-840-FVLF-(L46)-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-L56-840-FVLF-(L46)-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	4654
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	36.8
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	2676	2491	2451
55	1983	1823	1762
65	1452	1313	1320
75	1023	934	929
85	466	361	264

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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>	2180.543	2180.543	2180.543	2180.543	2180.543
<b>5</b>	2185.419	2178.293	2165.166	2156.165	2159.540
<b>10</b>	2151.664	2145.288	2133.662	2125.786	2129.536
<b>15</b>	2095.782	2090.906	2079.654	2071.028	2072.153
<b>20</b>	2015.896	2011.020	2002.394	1993.018	1991.518
<b>25</b>	1913.882	1907.506	1895.880	1888.754	1887.629
<b>30</b>	1781.489	1770.988	1747.735	1745.109	1745.109
<b>35</b>	1614.967	1600.340	1573.711	1569.961	1565.085
<b>40</b>	1417.315	1383.186	1354.307	1338.180	1330.304
<b>45</b>	1171.657	1145.029	1090.647	1071.144	1073.019
<b>50</b>	929.375	908.747	843.863	828.861	831.487
<b>55</b>	704.345	688.593	647.337	627.459	625.959
<b>60</b>	526.571	514.194	482.690	467.313	474.814
<b>65</b>	379.926	369.800	343.546	345.421	345.421
<b>70</b>	267.036	260.285	239.657	241.157	240.782
<b>75</b>	163.897	160.897	149.645	145.520	148.895
<b>80</b>	82.136	73.885	67.134	66.759	67.509
<b>85</b>	25.128	22.503	19.503	19.128	14.252
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	792.73	N.A.	17.00
0-30	1664.39	N.A.	35.80
0-40	2647.77	N.A.	56.90
0-60	4100.18	N.A.	88.10
0-80	4623.87	N.A.	99.40
0-90	4654.09	N.A.	100.00
10-90	4448.12	N.A.	95.60
20-40	1855.04	N.A.	39.90
20-50	2710.94	N.A.	58.20
40-70	1811.18	N.A.	38.90
60-80	523.69	N.A.	11.30
70-80	164.91	N.A.	3.50
80-90	30.22	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	4654.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	205.97
10-20	586.77
20-30	871.66
30-40	983.38
40-50	855.90
50-60	596.51
60-70	358.77
70-80	164.91
80-90	30.22
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

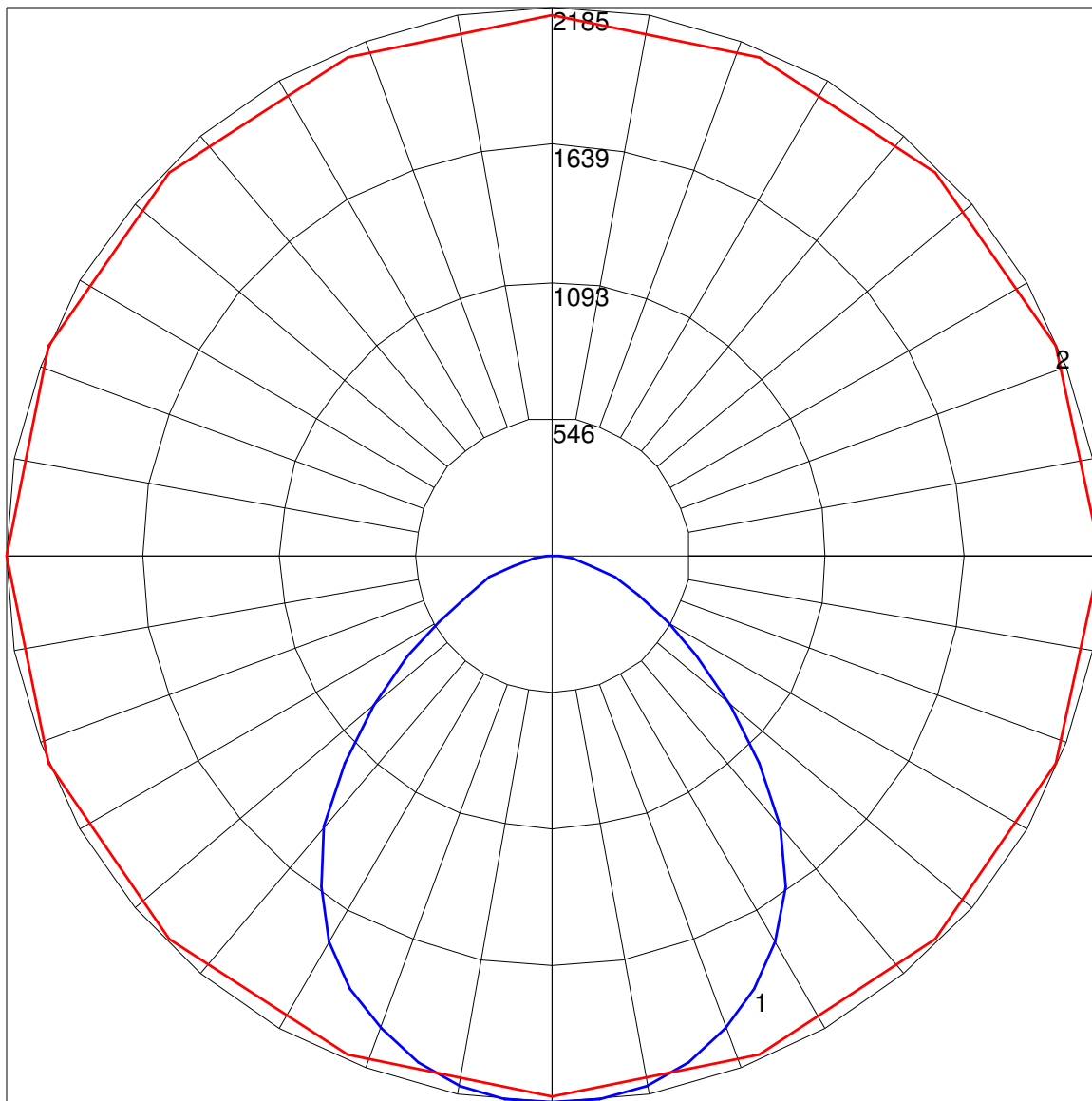
### Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.5	15.0	13.9	15.3	15.6	12.9	14.3	13.2	14.7	15.0
	3H	14.7	16.1	15.1	16.4	16.7	14.1	15.4	14.5	15.7	16.1
	4H	15.1	16.4	15.5	16.7	17.1	14.5	15.7	14.9	16.0	16.4
	6H	15.3	16.5	15.7	16.8	17.2	14.6	15.8	15.1	16.2	16.5
	8H	15.4	16.5	15.8	16.8	17.2	14.7	15.8	15.1	16.1	16.6
	12H	15.4	16.4	15.8	16.8	17.2	14.7	15.7	15.1	16.1	16.5
4H	2H	13.8	15.1	14.2	15.4	15.8	13.3	14.5	13.7	14.9	15.2
	3H	15.3	16.3	15.7	16.7	17.1	14.7	15.7	15.1	16.1	16.5
	4H	15.7	16.7	16.2	17.1	17.5	15.2	16.1	15.6	16.5	16.9
	6H	16.0	16.8	16.5	17.3	17.7	15.4	16.2	15.9	16.7	17.1
	8H	16.1	16.8	16.6	17.3	17.7	15.5	16.2	15.9	16.7	17.1
	12H	16.1	16.8	16.6	17.3	17.7	15.5	16.1	15.9	16.6	17.1
8H	4H	15.9	16.6	16.3	17.0	17.5	15.3	16.1	15.8	16.5	17.0
	6H	16.2	16.8	16.7	17.3	17.8	15.6	16.2	16.1	16.7	17.2
	8H	16.3	16.8	16.8	17.3	17.8	15.7	16.2	16.2	16.8	17.2
	12H	16.3	16.8	16.8	17.3	17.9	15.7	16.2	16.2	16.7	17.3
12H	4H	15.8	16.5	16.3	17.0	17.5	15.3	16.0	15.8	16.5	16.9
	6H	16.2	16.7	16.7	17.2	17.7	15.6	16.2	16.2	16.6	17.2
	8H	16.3	16.8	16.8	17.3	17.8	15.7	16.2	16.2	16.7	17.3

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 2185.419 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.)