



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L56-835-FVL-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 21039.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 23-APR-2020

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-56 LED 22"ARRAYS 2X4' RECESSED LUMINAIRE

[MORE] WHITE REFL w/ CLEAR POLYCARB LENS W/ PRISMATIC PAT12 OVERLAY

[LUMCAT] V50G-S24-L56/835-FVL-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
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	2933	2860	2833
55	2446	2384	2341
65	2002	1887	1915
75	1674	1623	1779
85	1332	1440	1614

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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>
<b>0</b>	2324.171	2324.171	2324.171	2324.171	2324.171
<b>5</b>	2333.937	2320.265	2304.250	2297.609	2299.172
<b>10</b>	2293.312	2281.594	2263.626	2259.329	2260.110
<b>15</b>	2228.861	2217.142	2200.736	2192.924	2194.486
<b>20</b>	2135.113	2124.957	2108.551	2098.785	2100.738
<b>25</b>	2015.193	2002.303	1986.288	1976.913	1979.256
<b>30</b>	1863.243	1851.915	1834.728	1830.041	1827.697
<b>35</b>	1688.247	1681.606	1663.247	1655.826	1654.263
<b>40</b>	1492.938	1486.688	1467.158	1451.142	1457.001
<b>45</b>	1284.349	1262.865	1252.318	1233.569	1240.600
<b>50</b>	1073.416	1062.088	1043.729	1029.666	1026.151
<b>55</b>	868.732	863.264	846.858	826.155	831.624
<b>60</b>	685.533	674.596	655.846	655.065	648.424
<b>65</b>	523.817	507.802	493.740	501.552	501.162
<b>70</b>	383.977	378.117	367.571	380.461	383.977
<b>75</b>	268.354	264.448	260.151	279.291	285.150
<b>80</b>	169.137	167.575	168.747	185.152	191.012
<b>85</b>	71.874	70.311	77.733	92.967	87.108
<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	840.62	N.A.	15.50
0-30	1755.82	N.A.	32.40
0-40	2796.02	N.A.	51.70
0-60	4525.3	N.A.	83.60
0-80	5320.7	N.A.	98.30
0-90	5412.07	N.A.	100.00
10-90	5192.83	N.A.	95.90
20-40	1955.4	N.A.	36.10
20-50	2924.12	N.A.	54.00
40-70	2236.16	N.A.	41.30
60-80	795.40	N.A.	14.70
70-80	288.51	N.A.	5.30
80-90	91.37	N.A.	1.70
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	5412.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	219.24
10-20	621.39
20-30	915.20
30-40	1040.2
40-50	968.72
50-60	760.56
60-70	506.89
70-80	288.51
80-90	91.37
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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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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

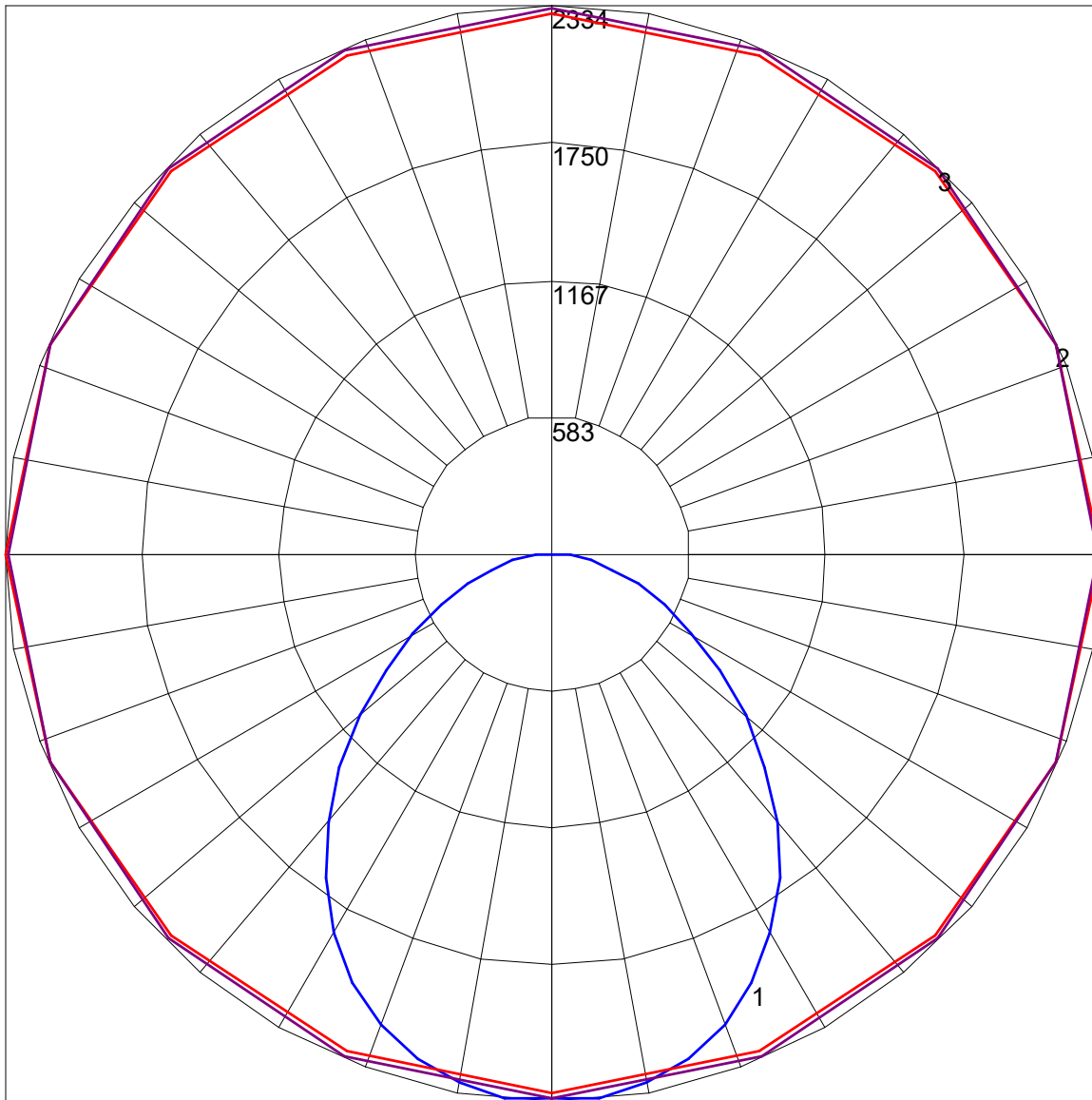
X=2H	Y=2H	14.7	16.2	15.1	16.6	16.9	14.4	16.0	14.8	16.3	16.6
	3H	16.1	17.5	16.5	17.9	18.2	16.0	17.4	16.3	17.7	18.0
	4H	16.7	18.0	17.1	18.4	18.8	16.6	17.9	17.0	18.3	18.7
	6H	17.2	18.4	17.6	18.7	19.1	17.2	18.4	17.6	18.8	19.2
	8H	17.3	18.5	17.8	18.9	19.3	17.4	18.5	17.8	18.9	19.3
	12H	17.4	18.5	17.8	18.9	19.3	17.5	18.6	18.0	19.0	19.5

UGR Viewed Endwise

4H	2H	15.1	16.5	15.5	16.8	17.2	14.9	16.2	15.3	16.6	17.0
	3H	16.8	17.9	17.2	18.3	18.7	16.7	17.8	17.1	18.2	18.6
	4H	17.5	18.5	18.0	18.9	19.4	17.5	18.5	17.9	18.9	19.3
	6H	18.1	19.0	18.6	19.4	19.9	18.2	19.1	18.7	19.5	20.0
	8H	18.3	19.1	18.8	19.6	20.0	18.5	19.3	18.9	19.7	20.2
	12H	18.5	19.2	19.0	19.7	20.1	18.7	19.4	19.2	19.9	20.4
8H	4H	17.8	18.6	18.2	19.0	19.5	17.8	18.6	18.2	19.0	19.5
	6H	18.5	19.2	19.0	19.7	20.2	18.6	19.3	19.1	19.8	20.3
	8H	18.8	19.4	19.3	19.9	20.4	19.0	19.6	19.5	20.1	20.6
	12H	19.0	19.5	19.5	20.0	20.6	19.3	19.8	19.8	20.3	20.9
12H	4H	17.8	18.6	18.3	19.0	19.5	17.8	18.5	18.3	19.0	19.5
	6H	18.6	19.2	19.1	19.7	20.2	18.7	19.3	19.2	19.8	20.3
	8H	18.9	19.4	19.4	19.9	20.5	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 2333.937 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.)  
# 3 - Horizontal Cone Through Vertical Angle (0)