



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L58-835-FPC12187-CA040-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] 2-56 LED 22" ARRAYS 2x2' RECESSED LUMINAIRE

[MORE] WHITE REFL w/.187" PRISMATIC PAT12 POLYCARB LENS & CA040 OVERLAY

[LUMCAT] V50G-S22-L58/835-FPC12187/CA040-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4848
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	54.4
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)	1.77 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	5582	5443	5392
55	4654	4537	4456
65	3809	3590	3644
75	3186	3089	3386
85	2534	2741	3071

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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>	2081.963	2081.963	2081.963	2081.963	2081.963
<b>5</b>	2090.710	2078.464	2064.117	2058.169	2059.568
<b>10</b>	2054.320	2043.823	2027.727	2023.878	2024.577
<b>15</b>	1996.585	1986.087	1971.391	1964.393	1965.793
<b>20</b>	1912.606	1903.509	1888.813	1880.065	1881.814
<b>25</b>	1805.184	1793.637	1779.291	1770.893	1772.992
<b>30</b>	1669.069	1658.922	1643.526	1639.327	1637.227
<b>35</b>	1512.310	1506.361	1489.915	1483.267	1481.868
<b>40</b>	1337.355	1331.756	1314.261	1299.915	1305.163
<b>45</b>	1150.503	1131.258	1121.810	1105.015	1111.313
<b>50</b>	961.552	951.404	934.959	922.362	919.213
<b>55</b>	778.199	773.300	758.604	740.059	744.958
<b>60</b>	614.092	604.294	587.498	586.799	580.850
<b>65</b>	469.229	454.883	442.286	449.284	448.934
<b>70</b>	343.961	338.713	329.265	340.812	343.961
<b>75</b>	240.388	236.889	233.040	250.185	255.434
<b>80</b>	151.511	150.111	151.161	165.857	171.106
<b>85</b>	64.383	62.984	69.632	83.279	78.030
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	753.02	N.A.	15.50
0-30	1572.84	N.A.	32.40
0-40	2504.64	N.A.	51.70
0-60	4053.71	N.A.	83.60
0-80	4766.21	N.A.	98.30
0-90	4848.06	N.A.	100.00
10-90	4651.67	N.A.	95.90
20-40	1751.62	N.A.	36.10
20-50	2619.39	N.A.	54.00
40-70	2003.13	N.A.	41.30
60-80	712.51	N.A.	14.70
70-80	258.45	N.A.	5.30
80-90	81.85	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	4848.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.39
10-20	556.63
20-30	819.82
30-40	931.80
40-50	867.77
50-60	681.30
60-70	454.06
70-80	258.45
80-90	81.85
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	16.9	18.5	17.3	18.8	19.1	16.6	18.2	17.0	18.5	18.8
	3H	18.4	19.8	18.7	20.1	20.5	18.2	19.6	18.6	19.9	20.3
	4H	18.9	20.2	19.3	20.6	21.0	18.8	20.1	19.2	20.5	20.9
	6H	19.4	20.6	19.8	21.0	21.4	19.4	20.6	19.8	21.0	21.4
	8H	19.5	20.7	20.0	21.1	21.5	19.6	20.8	20.0	21.2	21.6
	12H	19.6	20.7	20.1	21.1	21.6	19.8	20.9	20.2	21.2	21.7

### UGR Viewed Endwise

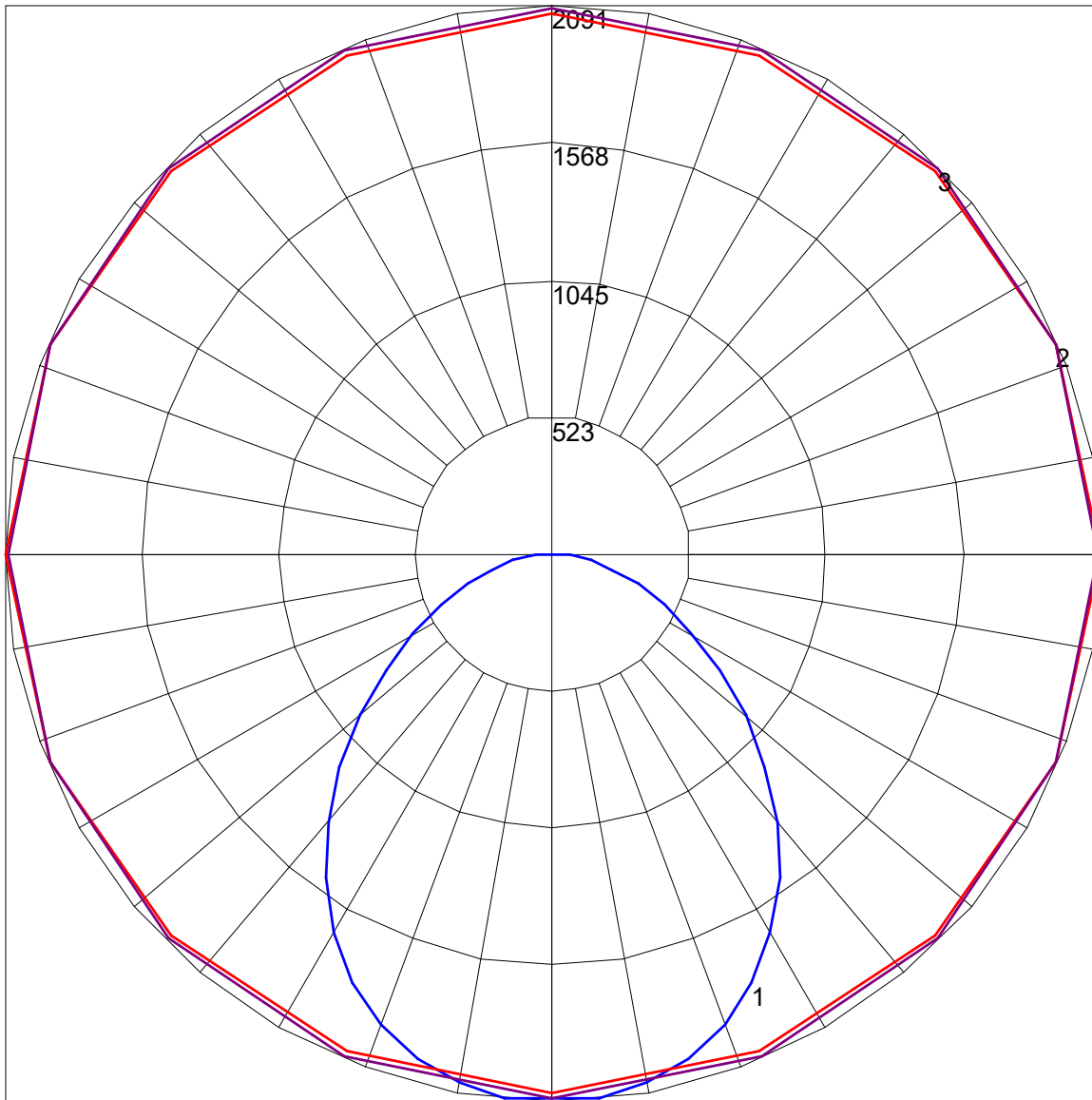
4H	2H	17.4	18.7	17.8	19.0	19.4	17.1	18.4	17.5	18.8	19.2
	3H	19.1	20.1	19.5	20.5	20.9	18.9	20.0	19.3	20.4	20.8
	4H	19.8	20.7	20.2	21.2	21.6	19.7	20.7	20.2	21.1	21.6
	6H	20.3	21.2	20.8	21.6	22.1	20.4	21.3	20.9	21.7	22.2
	8H	20.5	21.4	21.0	21.8	22.3	20.7	21.5	21.2	22.0	22.4
	12H	20.7	21.4	21.2	21.9	22.4	20.9	21.6	21.4	22.1	22.6

8H	4H	20.0	20.8	20.5	21.3	21.7	20.0	20.8	20.4	21.2	21.7
	6H	20.7	21.4	21.2	21.9	22.4	20.9	21.5	21.3	22.0	22.5
	8H	21.0	21.6	21.5	22.1	22.6	21.2	21.8	21.7	22.3	22.8
	12H	21.2	21.8	21.7	22.3	22.8	21.5	22.1	22.0	22.5	23.1

12H	4H	20.0	20.8	20.5	21.2	21.7	20.0	20.7	20.5	21.2	21.7
	6H	20.8	21.4	21.3	21.9	22.4	20.9	21.5	21.4	22.0	22.5
	8H	21.1	21.7	21.6	22.2	22.7	21.3	21.9	21.8	22.3	22.9

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 2090.71 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)