



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L58-835-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] 2-56 LED 22"ARRAYS 2X2' RECESSED LUMINAIRE

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

[LUMCAT] V50G-S22-L58/835-FVL-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5658
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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)	1.76 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	6551	6388	6328
55	5463	5325	5230
65	4471	4214	4277
75	3740	3625	3974
85	2974	3217	3605

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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>
0	2429.816	2429.816	2429.816	2429.816	2429.816
5	2440.025	2425.732	2408.989	2402.046	2403.680
10	2397.554	2385.303	2366.518	2362.026	2362.843
15	2330.173	2317.922	2300.770	2292.603	2294.236
20	2232.164	2221.546	2204.394	2194.185	2196.227
25	2106.793	2093.317	2076.574	2066.773	2069.223
30	1947.936	1936.094	1918.125	1913.225	1910.774
35	1764.986	1758.043	1738.850	1731.091	1729.457
40	1560.799	1554.265	1533.847	1517.103	1523.229
45	1342.728	1320.268	1309.242	1289.640	1296.991
50	1122.207	1110.365	1091.171	1076.470	1072.794
55	908.220	902.503	885.351	863.708	869.425
60	716.694	705.259	685.657	684.841	677.898
65	547.627	530.884	516.183	524.350	523.942
70	401.430	395.304	384.278	397.755	401.430
75	280.552	276.468	271.976	291.986	298.112
80	176.825	175.192	176.417	193.569	199.694
85	75.141	73.507	81.266	97.193	91.067
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	878.83	N.A.	15.50
0-30	1835.63	N.A.	32.40
0-40	2923.12	N.A.	51.70
0-60	4731.00	N.A.	83.60
0-80	5562.55	N.A.	98.30
0-90	5658.07	N.A.	100.00
10-90	5428.87	N.A.	95.90
20-40	2044.28	N.A.	36.10
20-50	3057.03	N.A.	54.00
40-70	2337.81	N.A.	41.30
60-80	831.55	N.A.	14.70
70-80	301.63	N.A.	5.30
80-90	95.52	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	5658.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	229.20
10-20	649.63
20-30	956.80
30-40	1087.48
40-50	1012.75
50-60	795.13
60-70	529.93
70-80	301.63
80-90	95.52
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	17.4	19.0	17.8	19.3	19.6	UGR Viewed Endwise			
	3H	18.9	20.3	19.3	20.6	21.0	17.2	18.7	17.5	19.0
	4H	19.4	20.8	19.8	21.1	21.5	18.7	20.1	19.1	20.4
	6H	19.9	21.1	20.3	21.5	21.9	19.3	20.7	19.7	21.0
	8H	20.1	21.2	20.5	21.6	22.0	19.9	21.1	20.3	21.5
	12H	20.2	21.3	20.6	21.6	22.1	20.1	21.3	20.6	21.7

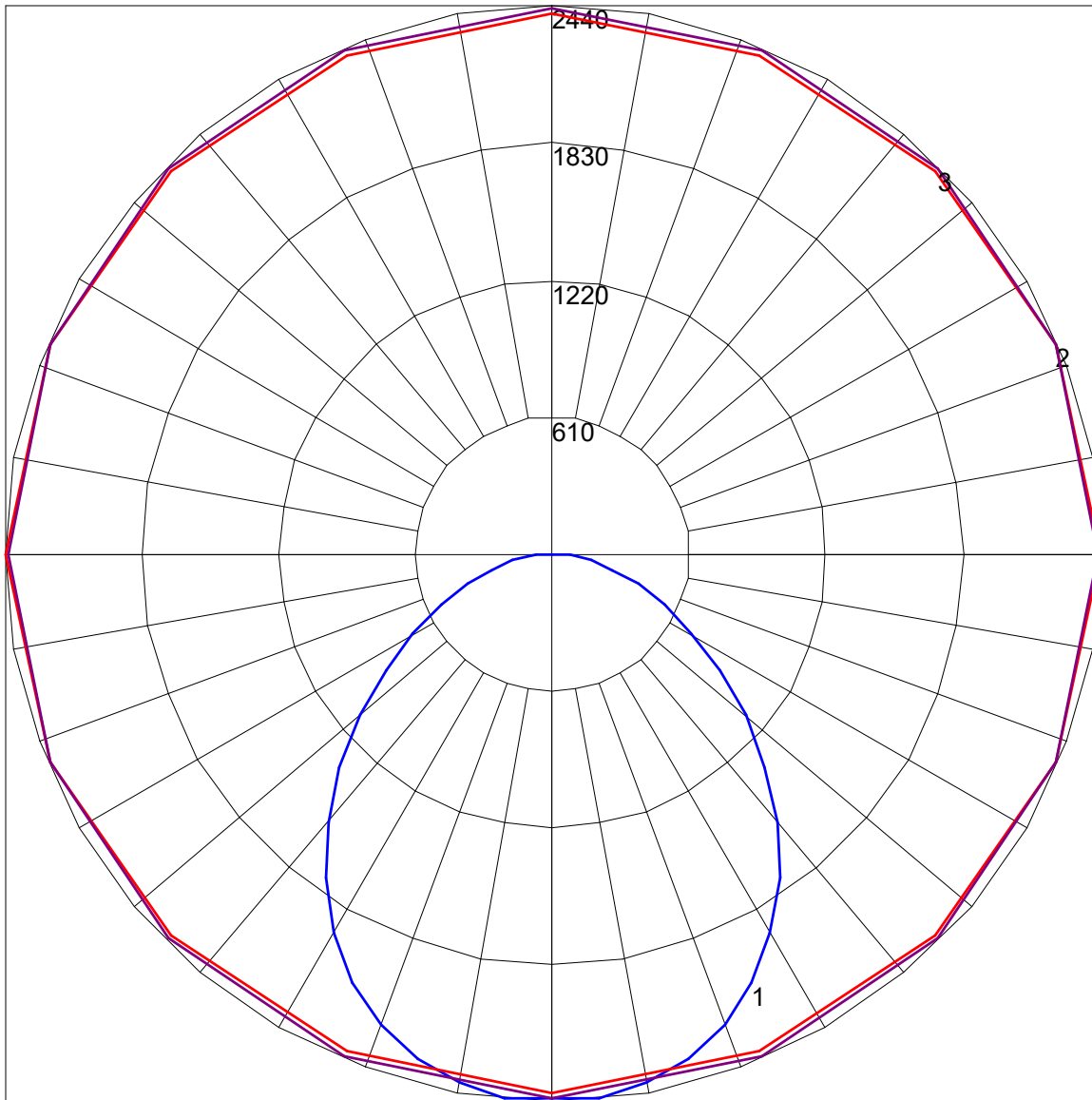
4H	2H	17.9	19.2	18.3	19.5	19.9	20.3	21.4	20.7	21.8
	3H	19.6	20.7	20.0	21.1	21.5	21.4	22.2	21.9	22.6
	4H	20.3	21.3	20.7	21.7	22.1	20.9	21.8	21.4	22.3
	6H	20.9	21.7	21.3	22.2	22.6	21.2	22.0	21.7	22.5
	8H	21.1	21.9	21.5	22.3	22.8	21.4	22.2	21.9	22.6
	12H	21.2	21.9	21.7	22.4	22.9				

8H	4H	20.5	21.3	21.0	21.8	22.2	20.5	21.3	21.0	21.7
	6H	21.3	21.9	21.8	22.4	22.9	20.9	21.8	21.4	22.3
	8H	21.5	22.1	22.1	22.6	23.1	21.4	22.0	21.9	22.5
	12H	21.7	22.3	22.3	22.8	23.3	21.7	22.3	22.2	22.8

12H	4H	20.6	21.3	21.0	21.8	22.2	22.0	22.6	22.5	23.1
	6H	21.3	21.9	21.9	22.4	22.9	22.5	23.1	23.6	
	8H	21.6	22.2	22.2	22.7	23.2	20.5	21.2	21.0	21.7

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 2440.025 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)