



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L58-835-FVLF-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] 23-APR-2020

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

[LUMINAIRE] 2-56 LED 22" ARRAYS 2x2' RECESSED LUMINAIRE w/WHITE REFL

[MORE] CLEAR POLYCARB LENS w/FROSTED PRISMATIC PAT12 OVERLAY

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5827
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	54.4
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)	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	7117	6625	6518
55	5275	4848	4688
65	3861	3492	3511
75	2720	2483	2471
85	1238	961	702

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : V50G-S22-L58-835-FVLF-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2730.129	2730.129	2730.129	2730.129	2730.129
5	2736.234	2727.312	2710.877	2699.607	2703.833
10	2693.972	2685.989	2671.432	2661.571	2666.267
15	2624.005	2617.900	2603.813	2593.013	2594.421
20	2523.984	2517.880	2507.080	2495.340	2493.462
25	2396.259	2388.276	2373.719	2364.797	2363.389
30	2230.498	2217.350	2188.236	2184.949	2184.949
35	2022.005	2003.691	1970.351	1965.656	1959.551
40	1774.537	1731.806	1695.648	1675.456	1665.595
45	1466.963	1433.623	1365.534	1341.116	1343.464
50	1163.616	1137.789	1056.552	1037.768	1041.056
55	881.868	862.146	810.492	785.605	783.727
60	659.288	643.792	604.348	585.095	594.486
65	475.683	463.004	430.134	432.482	432.482
70	334.340	325.887	300.061	301.939	301.469
75	205.206	201.449	187.362	182.196	186.423
80	102.838	92.507	84.055	83.585	84.524
85	31.462	28.175	24.418	23.949	17.844
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V50G-S22-L58-835-FVLF-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	992.53	N.A.	17.00
0-30	2083.89	N.A.	35.80
0-40	3315.12	N.A.	56.90
0-60	5133.6	N.A.	88.10
0-80	5789.27	N.A.	99.40
0-90	5827.11	N.A.	100.00
10-90	5569.23	N.A.	95.60
20-40	2322.59	N.A.	39.90
20-50	3394.21	N.A.	58.20
40-70	2267.67	N.A.	38.90
60-80	655.68	N.A.	11.30
70-80	206.48	N.A.	3.50
80-90	37.84	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	5827.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	257.88
10-20	734.65
20-30	1091.36
30-40	1231.23
40-50	1071.63
50-60	746.85
60-70	449.20
70-80	206.48
80-90	37.84
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V50G-S22-L58-835-FVLF-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V50G-S22-L58-835-FVLF-DIM-UNV_.IES

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	17.0	18.4	17.3	18.7	19.1	16.3	17.8	16.6	18.1	18.4
	3H	18.2	19.5	18.5	19.8	20.2	17.5	18.8	17.9	19.2	19.5
	4H	18.5	19.8	18.9	20.1	20.5	17.9	19.1	18.3	19.5	19.8
	6H	18.7	19.9	19.2	20.3	20.6	18.1	19.2	18.5	19.6	20.0
	8H	18.8	19.9	19.2	20.3	20.7	18.1	19.2	18.5	19.6	20.0
	12H	18.8	19.8	19.2	20.2	20.6	18.1	19.1	18.5	19.5	19.9

UGR Viewed Endwise

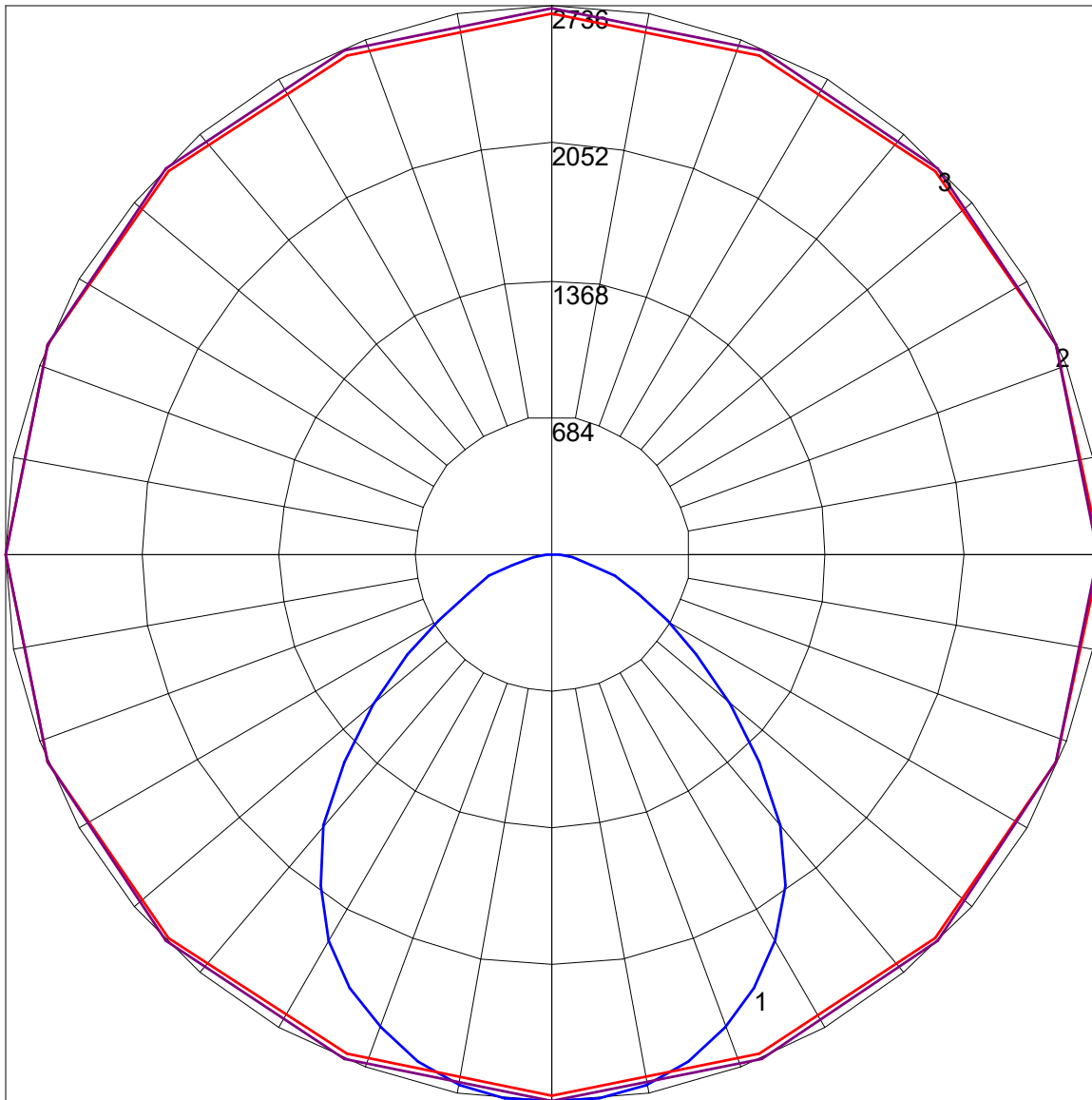
4H	2H	17.3	18.5	17.7	18.9	19.2	16.7	17.9	17.1	18.3	18.7
	3H	18.7	19.7	19.1	20.1	20.5	18.1	19.1	18.5	19.5	19.9
	4H	19.2	20.1	19.6	20.5	20.9	18.6	19.5	19.0	19.9	20.4
	6H	19.5	20.2	19.9	20.7	21.2	18.9	19.6	19.3	20.1	20.5
	8H	19.5	20.3	20.0	20.7	21.2	18.9	19.6	19.4	20.1	20.5
	12H	19.5	20.2	20.0	20.7	21.1	18.9	19.5	19.4	20.0	20.5

8H	4H	19.3	20.0	19.8	20.5	20.9	18.8	19.5	19.2	19.9	20.4
	6H	19.6	20.2	20.1	20.7	21.2	19.0	19.7	19.5	20.1	20.6
	8H	19.7	20.2	20.2	20.8	21.2	19.1	19.7	19.6	20.2	20.7
	12H	19.7	20.2	20.3	20.7	21.3	19.1	19.6	19.6	20.1	20.7

12H	4H	19.3	19.9	19.7	20.4	20.9	18.7	19.4	19.2	19.9	20.3
	6H	19.6	20.2	20.1	20.6	21.2	19.0	19.6	19.6	20.1	20.6
	8H	19.7	20.2	20.2	20.7	21.3	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 21.3

POLAR GRAPH



Maximum Candela = 2736.234 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)