



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L39-835-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-L39/835-FVLF-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3903
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	33.7
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	4767	4438	4366
55	3533	3247	3140
65	2586	2339	2351
75	1822	1663	1655
85	829	644	470

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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	1828.676	1828.676	1828.676	1828.676	1828.676
5	1832.764	1826.788	1815.780	1808.231	1811.062
10	1804.457	1799.110	1789.359	1782.754	1785.900
15	1757.592	1753.503	1744.067	1736.833	1737.777
20	1690.597	1686.508	1679.274	1671.411	1670.153
25	1605.045	1599.698	1589.948	1583.972	1583.028
30	1494.016	1485.209	1465.708	1463.507	1463.507
35	1354.365	1342.098	1319.767	1316.621	1312.532
40	1188.608	1159.985	1135.767	1122.242	1115.637
45	982.591	960.259	914.652	898.297	899.869
50	779.405	762.105	707.692	695.111	697.312
55	590.687	577.477	542.878	526.208	524.950
60	441.600	431.220	404.800	391.904	398.195
65	318.619	310.126	288.109	289.682	289.682
70	223.945	218.284	200.984	202.243	201.928
75	137.449	134.933	125.497	122.038	124.868
80	68.882	61.962	56.301	55.986	56.615
85	21.073	18.872	16.356	16.041	11.952
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	664.81	N.A.	17.00
0-30	1395.82	N.A.	35.80
0-40	2220.51	N.A.	56.90
0-60	3438.55	N.A.	88.10
0-80	3877.73	N.A.	99.40
0-90	3903.07	N.A.	100.00
10-90	3730.34	N.A.	95.60
20-40	1555.7	N.A.	39.90
20-50	2273.49	N.A.	58.20
40-70	1518.92	N.A.	38.90
60-80	439.18	N.A.	11.30
70-80	138.30	N.A.	3.50
80-90	25.34	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	3903.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.73
10-20	492.08
20-30	731.00
30-40	824.69
40-50	717.79
50-60	500.25
60-70	300.88
70-80	138.30
80-90	25.34
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

X=2H	Y=2H	15.6	17.0	15.9	17.3	17.7	UGR Viewed Endwise			
	3H	16.8	18.1	17.1	18.4	18.8	14.9	16.4	15.2	16.7
	4H	17.1	18.4	17.5	18.7	19.1	16.1	17.4	16.5	17.8
	6H	17.3	18.5	17.8	18.9	19.2	16.5	17.7	16.9	18.1
	8H	17.4	18.5	17.8	18.9	19.3	16.7	17.8	17.1	18.2
	12H	17.4	18.4	17.8	18.8	19.2	16.7	17.8	17.1	18.2

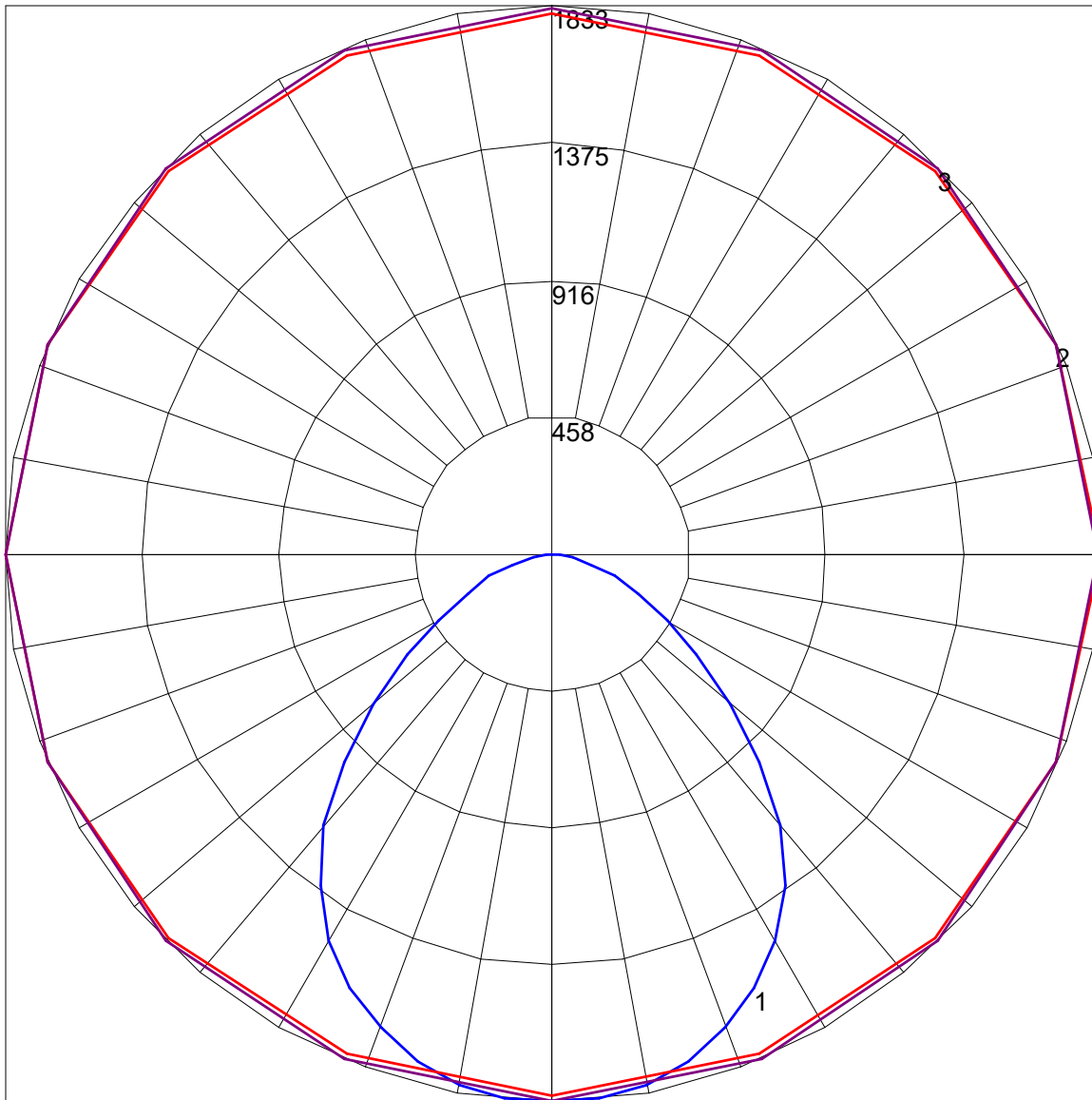
4H	2H	15.9	17.1	16.3	17.5	17.8	16.7	17.7	17.1	18.1
	3H	17.3	18.3	17.7	18.7	19.1	15.3	16.5	15.7	16.9
	4H	17.8	18.7	18.2	19.1	19.5	16.7	17.7	17.1	18.1
	6H	18.1	18.8	18.5	19.3	19.8	17.2	18.1	17.6	18.5
	8H	18.1	18.9	18.6	19.3	19.8	17.5	18.2	17.9	18.7
	12H	18.1	18.8	18.6	19.3	19.7	17.5	18.2	18.0	18.7

8H	4H	17.9	18.6	18.4	19.1	19.5	17.5	18.1	17.1	18.1
	6H	18.2	18.8	18.7	19.3	19.8	17.4	18.1	17.8	18.5
	8H	18.3	18.8	18.8	19.4	19.8	17.6	18.3	18.1	18.7
	12H	18.3	18.8	18.9	19.3	19.9	17.7	18.3	18.2	18.8

12H	4H	17.9	18.5	18.3	19.0	19.5	17.7	18.2	18.2	18.7
	6H	18.2	18.8	18.7	19.2	19.8	17.3	18.0	17.8	18.5
	8H	18.3	18.8	18.8	19.3	19.9	17.6	18.2	18.2	18.7

Maximum UGR = 19.9

POLAR GRAPH



Maximum Candela = 1832.764 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)