



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L81-835-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] 4-56 LED 22" ARRAYS 2X4' RECESSED LUMINAIRE w/WHITE REFL

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

[LUMCAT] V50G-S24-L81/835-FVLF-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	67.1
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)	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	4684	4360	4289
55	3471	3190	3085
65	2541	2298	2310
75	1790	1634	1626
85	815	633	462

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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	3816.652	3816.652	3816.652	3816.652	3816.652
5	3825.186	3812.714	3789.738	3773.983	3779.891
10	3766.105	3754.945	3734.595	3720.809	3727.374
15	3668.293	3659.759	3640.065	3624.966	3626.936
20	3528.467	3519.933	3504.834	3488.423	3485.797
25	3349.910	3338.750	3318.400	3305.927	3303.958
30	3118.180	3099.799	3059.099	3054.504	3054.504
35	2826.712	2801.110	2754.502	2747.937	2739.403
40	2480.758	2421.021	2370.473	2342.246	2328.460
45	2050.778	2004.169	1908.983	1874.847	1878.129
50	1626.705	1590.600	1477.033	1450.774	1455.370
55	1232.830	1205.259	1133.048	1098.256	1095.630
60	921.668	900.005	844.863	817.948	831.077
65	664.993	647.269	601.316	604.599	604.599
70	467.399	455.583	419.477	422.103	421.447
75	286.873	281.621	261.927	254.706	260.614
80	143.765	129.322	117.506	116.850	118.163
85	43.983	39.388	34.136	33.479	24.945
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1387.54	N.A.	17.00
0-30	2913.22	N.A.	35.80
0-40	4634.45	N.A.	56.90
0-60	7176.64	N.A.	88.10
0-80	8093.26	N.A.	99.40
0-90	8146.15	N.A.	100.00
10-90	7785.65	N.A.	95.60
20-40	3246.92	N.A.	39.90
20-50	4745.03	N.A.	58.20
40-70	3170.15	N.A.	38.90
60-80	916.62	N.A.	11.30
70-80	288.65	N.A.	3.50
80-90	52.90	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	8146.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	360.51
10-20	1027.03
20-30	1525.69
30-40	1721.23
40-50	1498.11
50-60	1044.08
60-70	627.96
70-80	288.65
80-90	52.90
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	15.5	17.0	15.9	17.3	17.6	UGR Viewed Endwise			
	3H	16.8	18.1	17.1	18.4	18.8	14.9	16.3	15.2	16.7
	4H	17.1	18.4	17.5	18.7	19.1	16.1	17.4	16.5	17.7
	6H	17.3	18.5	17.7	18.8	19.2	16.5	17.7	16.9	18.0
	8H	17.4	18.5	17.8	18.8	19.2	16.6	17.8	17.1	18.2
	12H	17.4	18.4	17.8	18.8	19.2	16.7	17.8	17.1	18.1

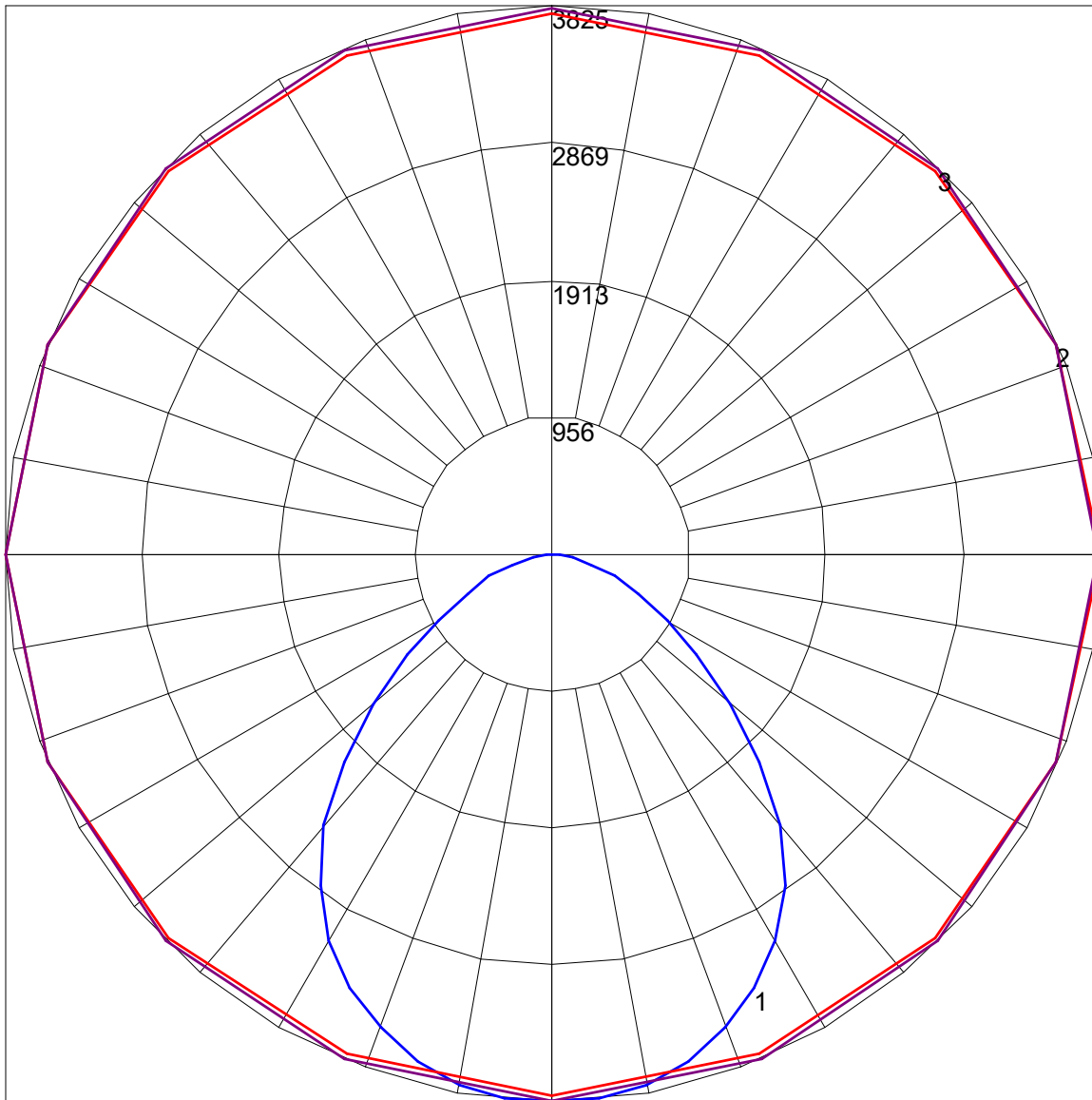
4H	2H	15.8	17.1	16.2	17.4	17.8	14.9	16.3	15.2	16.7
	3H	17.3	18.3	17.7	18.7	19.1	16.1	17.4	16.5	17.7
	4H	17.7	18.7	18.2	19.1	19.5	16.5	17.7	16.9	18.0
	6H	18.0	18.8	18.5	19.3	19.7	16.6	17.8	17.1	18.2
	8H	18.1	18.8	18.6	19.3	19.8	16.7	17.8	17.1	18.1
	12H	18.1	18.8	18.6	19.3	19.7	16.7	17.7	17.1	18.1

8H	4H	17.9	18.6	18.3	19.0	19.5	16.7	17.8	17.1	18.1
	6H	18.2	18.8	18.7	19.3	19.8	16.6	17.8	17.1	18.2
	8H	18.3	18.8	18.8	19.3	19.8	16.7	17.8	17.1	18.1
	12H	18.3	18.8	18.8	19.3	19.9	16.7	17.7	17.1	18.1

12H	4H	17.8	18.5	18.3	19.0	19.5	16.7	17.8	17.1	18.1
	6H	18.2	18.7	18.7	19.2	19.7	16.6	17.8	17.1	18.2
	8H	18.3	18.8	18.8	19.3	19.8	16.7	17.8	17.1	18.1

Maximum UGR = 19.9

POLAR GRAPH



Maximum Candela = 3825.186 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)