



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L56-835-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-L56/835-FVLF-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5574
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	48
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	3205	2983	2935
55	2375	2183	2111
65	1739	1572	1581
75	1225	1118	1113
85	558	433	316

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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	2611.591	2611.591	2611.591	2611.591	2611.591
5	2617.431	2608.896	2593.175	2582.394	2586.437
10	2577.004	2569.367	2555.443	2546.010	2550.501
15	2510.074	2504.235	2490.759	2480.428	2481.775
20	2414.397	2408.557	2398.226	2386.996	2385.199
25	2292.217	2284.581	2270.656	2262.121	2260.774
30	2133.653	2121.076	2093.226	2090.082	2090.082
35	1934.213	1916.694	1884.802	1880.310	1874.470
40	1697.489	1656.613	1622.025	1602.710	1593.277
45	1403.270	1371.377	1306.245	1282.887	1285.133
50	1113.093	1088.388	1010.678	992.710	995.854
55	843.579	824.713	775.302	751.495	749.698
60	630.663	615.840	578.108	559.691	568.675
65	455.030	442.901	411.458	413.704	413.704
70	319.823	311.738	287.032	288.829	288.380
75	196.296	192.703	179.227	174.286	178.328
80	98.373	88.490	80.405	79.956	80.854
85	30.096	26.951	23.358	22.909	17.069
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	949.44	N.A.	17.00
0-30	1993.41	N.A.	35.80
0-40	3171.18	N.A.	56.90
0-60	4910.7	N.A.	88.10
0-80	5537.91	N.A.	99.40
0-90	5574.1	N.A.	100.00
10-90	5327.42	N.A.	95.60
20-40	2221.74	N.A.	39.90
20-50	3246.84	N.A.	58.20
40-70	2169.21	N.A.	38.90
60-80	627.21	N.A.	11.30
70-80	197.51	N.A.	3.50
80-90	36.19	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	5574.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.68
10-20	702.76
20-30	1043.97
30-40	1177.77
40-50	1025.1
50-60	714.42
60-70	429.69
70-80	197.51
80-90	36.19
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

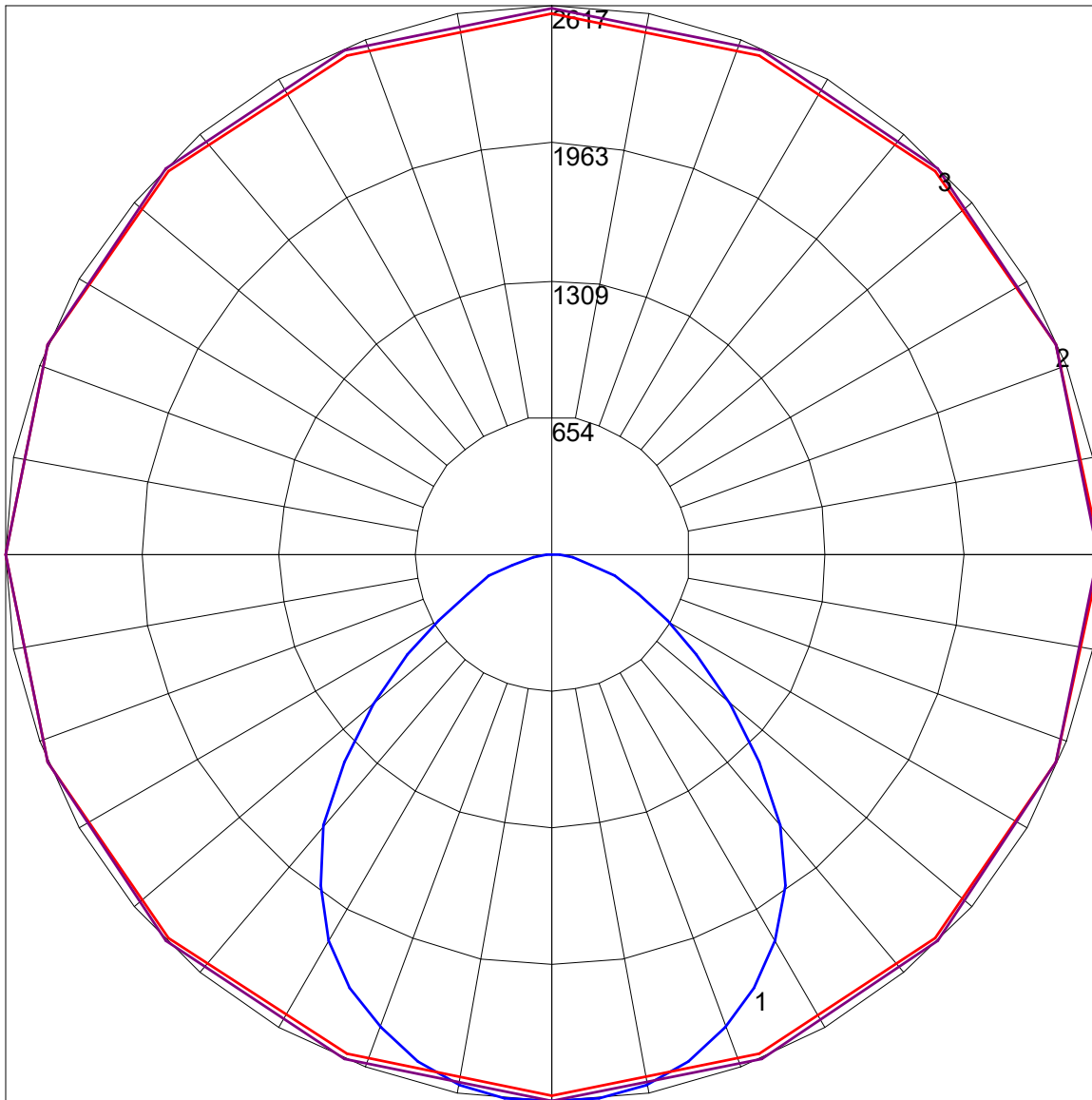
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.2	15.7	14.6	16.0	16.3	13.6	15.0	13.9	15.4	15.7
	3H	15.4	16.8	15.8	17.1	17.4	14.8	16.1	15.2	16.4	16.8
	4H	15.8	17.1	16.2	17.4	17.8	15.2	16.4	15.6	16.7	17.1
	6H	16.0	17.2	16.4	17.5	17.9	15.3	16.5	15.8	16.9	17.2
	8H	16.1	17.2	16.5	17.5	17.9	15.4	16.5	15.8	16.8	17.3
	12H	16.1	17.1	16.5	17.5	17.9	15.4	16.4	15.8	16.8	17.2
4H	2H	14.5	15.8	14.9	16.1	16.5	14.0	15.2	14.4	15.6	15.9
	3H	16.0	17.0	16.4	17.4	17.8	15.4	16.4	15.8	16.8	17.2
	4H	16.4	17.4	16.9	17.8	18.2	15.9	16.8	16.3	17.2	17.6
	6H	16.7	17.5	17.2	18.0	18.4	16.1	16.9	16.6	17.4	17.8
	8H	16.8	17.5	17.3	18.0	18.4	16.2	16.9	16.6	17.4	17.8
	12H	16.8	17.5	17.3	18.0	18.4	16.2	16.8	16.6	17.3	17.8
8H	4H	16.6	17.3	17.0	17.7	18.2	16.0	16.8	16.5	17.2	17.7
	6H	16.9	17.5	17.4	18.0	18.5	16.3	16.9	16.8	17.4	17.9
	8H	17.0	17.5	17.5	18.0	18.5	16.4	16.9	16.9	17.5	17.9
	12H	17.0	17.5	17.5	18.0	18.6	16.4	16.9	16.9	17.4	18.0
12H	4H	16.5	17.2	17.0	17.7	18.2	16.0	16.7	16.5	17.2	17.6
	6H	16.9	17.4	17.4	17.9	18.4	16.3	16.9	16.9	17.3	17.9
	8H	17.0	17.5	17.5	18.0	18.5	16.4	16.9	16.9	17.4	18.0

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 2617.431 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)