



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L31-835-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-FEB-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-L31/835-FVLF-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3103
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	24.9
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	1784	1661	1634
55	1322	1215	1175
65	968	875	880
75	682	623	619
85	310	241	176

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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	1453.851	1453.851	1453.851	1453.851	1453.851
5	1457.102	1452.351	1443.599	1437.597	1439.848
10	1434.597	1430.346	1422.594	1417.342	1419.843
15	1397.338	1394.087	1386.585	1380.834	1381.584
20	1344.075	1340.824	1335.073	1328.821	1327.821
25	1276.058	1271.807	1264.055	1259.304	1258.554
30	1187.787	1180.785	1165.282	1163.531	1163.531
35	1076.760	1067.008	1049.253	1046.753	1043.502
40	944.978	922.223	902.968	892.216	886.964
45	781.189	763.434	727.176	714.173	715.423
50	619.650	605.896	562.636	552.634	554.384
55	469.613	459.111	431.604	418.351	417.351
60	351.085	342.833	321.828	311.575	316.576
65	253.311	246.560	229.055	230.306	230.306
70	178.043	173.542	159.789	160.789	160.539
75	109.276	107.276	99.774	97.023	99.274
80	54.763	49.262	44.761	44.511	45.011
85	16.754	15.004	13.003	12.753	9.502
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	528.54	N.A.	17.00
0-30	1109.71	N.A.	35.80
0-40	1765.37	N.A.	56.90
0-60	2733.75	N.A.	88.10
0-80	3082.91	N.A.	99.40
0-90	3103.06	N.A.	100.00
10-90	2965.73	N.A.	95.60
20-40	1236.83	N.A.	39.90
20-50	1807.49	N.A.	58.20
40-70	1207.58	N.A.	38.90
60-80	349.16	N.A.	11.30
70-80	109.95	N.A.	3.50
80-90	20.15	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	3103.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.33
10-20	391.22
20-30	581.17
30-40	655.66
40-50	570.66
50-60	397.71
60-70	239.21
70-80	109.95
80-90	20.15
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

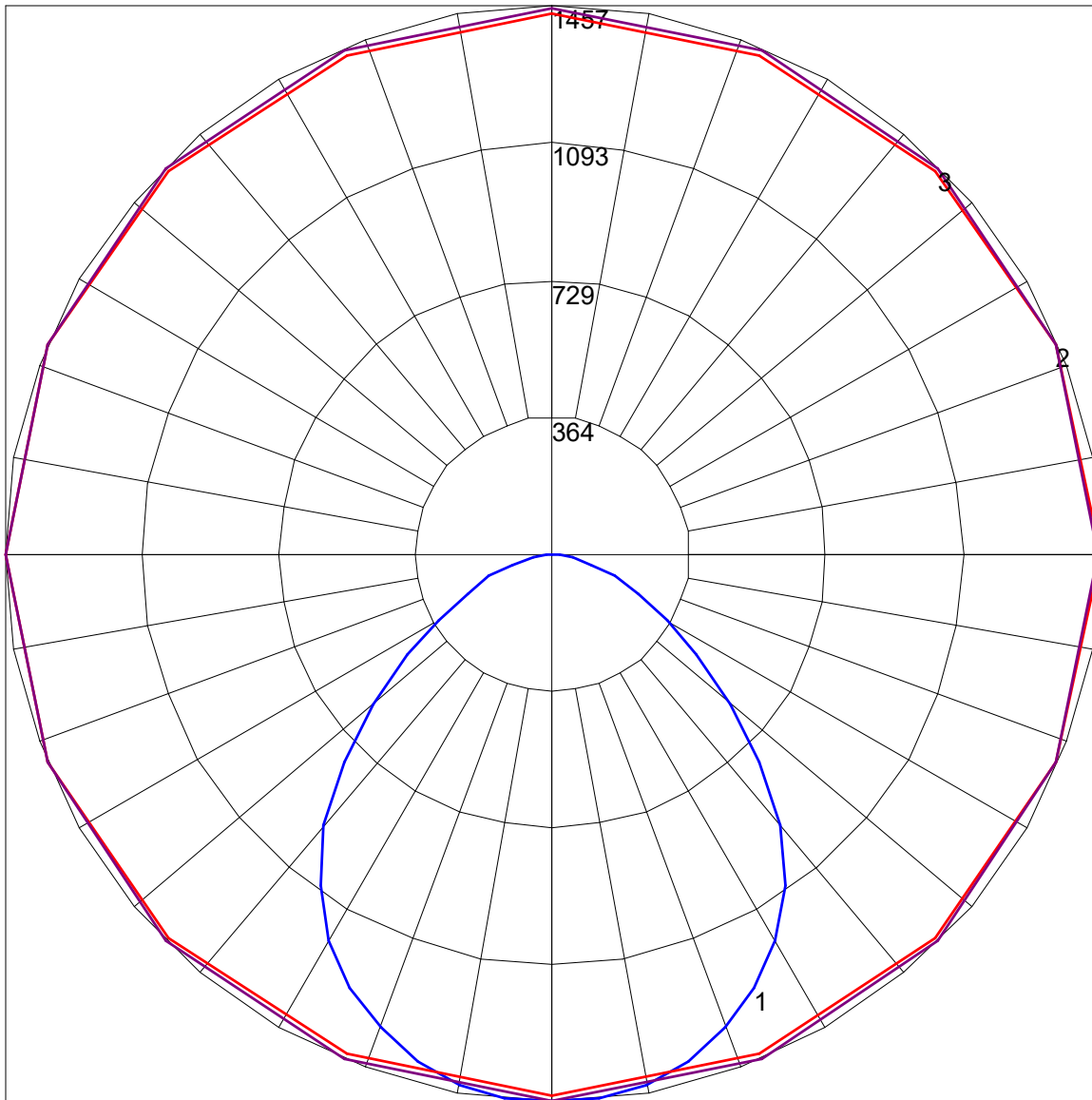
Reflectances

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	12.1	13.6	12.5	13.9	14.2	11.5	12.9	11.8	13.3	13.6
	3H	13.3	14.7	13.7	15.0	15.3	12.7	14.0	13.1	14.3	14.7
	4H	13.7	15.0	14.1	15.3	15.7	13.1	14.3	13.5	14.6	15.0
	6H	13.9	15.1	14.3	15.4	15.8	13.2	14.4	13.7	14.8	15.1
	8H	14.0	15.1	14.4	15.4	15.8	13.3	14.4	13.7	14.7	15.2
	12H	14.0	15.0	14.4	15.4	15.8	13.3	14.3	13.7	14.7	15.1
4H	2H	12.4	13.7	12.8	14.0	14.4	11.9	13.1	12.3	13.5	13.8
	3H	13.9	14.9	14.3	15.3	15.7	13.3	14.3	13.7	14.7	15.1
	4H	14.3	15.3	14.8	15.7	16.1	13.8	14.7	14.2	15.1	15.5
	6H	14.6	15.4	15.1	15.9	16.3	14.0	14.8	14.5	15.3	15.7
	8H	14.7	15.4	15.2	15.9	16.3	14.1	14.8	14.5	15.3	15.7
	12H	14.7	15.4	15.2	15.9	16.3	14.1	14.7	14.5	15.2	15.7
8H	4H	14.5	15.2	14.9	15.6	16.1	13.9	14.7	14.4	15.1	15.6
	6H	14.8	15.4	15.3	15.9	16.4	14.2	14.8	14.7	15.3	15.8
	8H	14.9	15.4	15.4	15.9	16.4	14.3	14.8	14.8	15.4	15.8
	12H	14.9	15.4	15.4	15.9	16.5	14.3	14.8	14.8	15.3	15.9
12H	4H	14.4	15.1	14.9	15.6	16.1	13.9	14.6	14.4	15.1	15.5
	6H	14.8	15.3	15.3	15.8	16.3	14.2	14.8	14.8	15.2	15.8
	8H	14.9	15.4	15.4	15.9	16.4	14.3	14.8	14.8	15.3	15.9

Maximum UGR = 16.5

POLAR GRAPH



Maximum Candela = 1457.102 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)