



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L31-835-FVL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 21039.0

[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

[MORE] WHITE REFL w/ CLEAR POLYCARB LENS W/ PRISMATIC PAT12 OVERLAY

[LUMCAT] V50G-S24-L31/835-FVL-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	24.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
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	1633	1592	1577
55	1362	1327	1304
65	1114	1050	1066
75	932	904	991
85	741	802	899

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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	1293.926	1293.926	1293.926	1293.926	1293.926
5	1299.363	1291.752	1282.835	1279.138	1280.008
10	1276.746	1270.222	1260.219	1257.827	1258.262
15	1240.864	1234.340	1225.207	1220.857	1221.727
20	1188.672	1183.018	1173.885	1168.448	1169.535
25	1121.910	1114.734	1105.818	1100.598	1101.903
30	1037.316	1031.009	1021.441	1018.831	1017.526
35	939.891	936.194	925.973	921.841	920.971
40	831.157	827.678	816.805	807.888	811.150
45	715.030	703.069	697.198	686.760	690.674
50	597.598	591.292	581.071	573.242	571.285
55	483.646	480.601	471.468	459.942	462.986
60	381.654	375.565	365.126	364.691	360.995
65	291.623	282.707	274.878	279.227	279.010
70	213.770	210.508	204.636	211.812	213.770
75	149.400	147.225	144.833	155.489	158.751
80	94.163	93.293	93.946	103.079	106.341
85	40.014	39.144	43.276	51.757	48.495
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	468.00	N.A.	15.50
0-30	977.51	N.A.	32.40
0-40	1556.62	N.A.	51.70
0-60	2519.35	N.A.	83.60
0-80	2962.17	N.A.	98.30
0-90	3013.04	N.A.	100.00
10-90	2890.98	N.A.	95.90
20-40	1088.62	N.A.	36.10
20-50	1627.93	N.A.	54.00
40-70	1244.93	N.A.	41.30
60-80	442.82	N.A.	14.70
70-80	160.62	N.A.	5.30
80-90	50.87	N.A.	1.70
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	3013.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.05
10-20	345.94
20-30	509.51
30-40	579.11
40-50	539.31
50-60	423.42
60-70	282.20
70-80	160.62
80-90	50.87
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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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UGR TABLE - CORRECTED

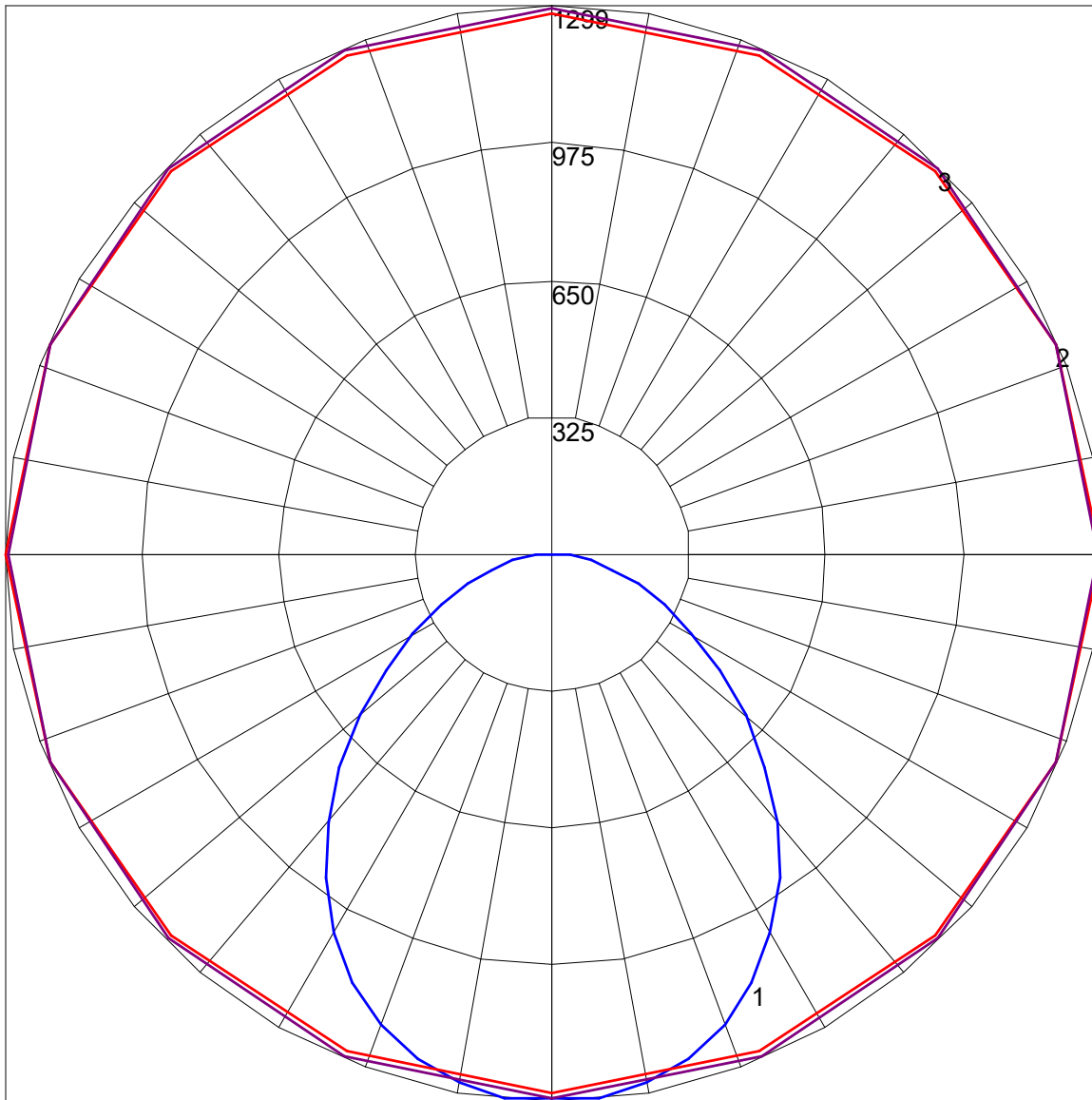
Reflectances

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	12.6	14.1	13.0	14.5	14.8	12.3	13.9	12.7	14.2	14.5
	3H	14.0	15.4	14.4	15.8	16.1	13.9	15.3	14.2	15.6	15.9
	4H	14.6	15.9	15.0	16.3	16.7	14.5	15.8	14.9	16.2	16.6
	6H	15.1	16.3	15.5	16.6	17.0	15.1	16.3	15.5	16.7	17.1
	8H	15.2	16.4	15.7	16.8	17.2	15.3	16.4	15.7	16.8	17.2
	12H	15.3	16.4	15.7	16.8	17.2	15.4	16.5	15.9	16.9	17.4
4H	2H	13.0	14.4	13.4	14.7	15.1	12.8	14.1	13.2	14.5	14.9
	3H	14.7	15.8	15.1	16.2	16.6	14.6	15.7	15.0	16.1	16.5
	4H	15.4	16.4	15.9	16.8	17.3	15.4	16.4	15.8	16.8	17.2
	6H	16.0	16.9	16.5	17.3	17.8	16.1	17.0	16.6	17.4	17.9
	8H	16.2	17.0	16.7	17.5	17.9	16.4	17.2	16.8	17.6	18.1
	12H	16.4	17.1	16.9	17.6	18.0	16.6	17.3	17.1	17.8	18.3
8H	4H	15.7	16.5	16.1	16.9	17.4	15.7	16.5	16.1	16.9	17.4
	6H	16.4	17.1	16.9	17.6	18.1	16.5	17.2	17.0	17.7	18.2
	8H	16.7	17.3	17.2	17.8	18.3	16.9	17.5	17.4	18.0	18.5
	12H	16.9	17.4	17.4	17.9	18.5	17.2	17.7	17.7	18.2	18.8
12H	4H	15.7	16.5	16.2	16.9	17.4	15.7	16.4	16.2	16.9	17.4
	6H	16.5	17.1	17.0	17.6	18.1	16.6	17.2	17.1	17.7	18.2
	8H	16.8	17.3	17.3	17.8	18.4	17.0	17.5	17.5	18.0	18.6

Maximum UGR = 18.8

POLAR GRAPH



Maximum Candela = 1299.363 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)