



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S24-L81-835-FPC12187-CA040-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/.187" PRISMATIC PAT12 POLYCARB LENS & CA040 OVERLAY

[LUMCAT] V50G-S24-L81/835-FPC12187/CA040-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	67.1
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	3673	3582	3548
55	3063	2986	2932
65	2507	2363	2398
75	2097	2033	2228
85	1668	1804	2021

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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	2910.368	2910.368	2910.368	2910.368	2910.368
5	2922.596	2905.476	2885.422	2877.106	2879.063
10	2871.726	2857.052	2834.551	2829.171	2830.149
15	2791.018	2776.344	2755.800	2746.017	2747.974
20	2673.625	2660.908	2640.364	2628.135	2630.581
25	2523.460	2507.318	2487.264	2475.524	2478.459
30	2333.185	2319.000	2297.478	2291.609	2288.674
35	2114.052	2105.737	2082.747	2073.453	2071.497
40	1869.483	1861.657	1837.200	1817.145	1824.483
45	1608.284	1581.381	1568.175	1544.696	1553.500
50	1344.150	1329.965	1306.975	1289.366	1284.964
55	1087.842	1080.994	1060.450	1034.526	1041.374
60	858.436	844.740	821.262	820.283	811.968
65	655.933	635.879	618.270	628.052	627.563
70	480.822	473.485	460.278	476.420	480.822
75	336.037	331.146	325.766	349.733	357.070
80	211.796	209.840	211.307	231.851	239.188
85	90.001	88.045	97.338	116.415	109.078
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1052.64	N.A.	15.50
0-30	2198.67	N.A.	32.40
0-40	3501.23	N.A.	51.70
0-60	5666.66	N.A.	83.60
0-80	6662.67	N.A.	98.30
0-90	6777.08	N.A.	100.00
10-90	6502.55	N.A.	95.90
20-40	2448.59	N.A.	36.10
20-50	3661.63	N.A.	54.00
40-70	2800.16	N.A.	41.30
60-80	996.01	N.A.	14.70
70-80	361.28	N.A.	5.30
80-90	114.41	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	6777.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	274.53
10-20	778.11
20-30	1146.03
30-40	1302.56
40-50	1213.05
50-60	952.38
60-70	634.73
70-80	361.28
80-90	114.41
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

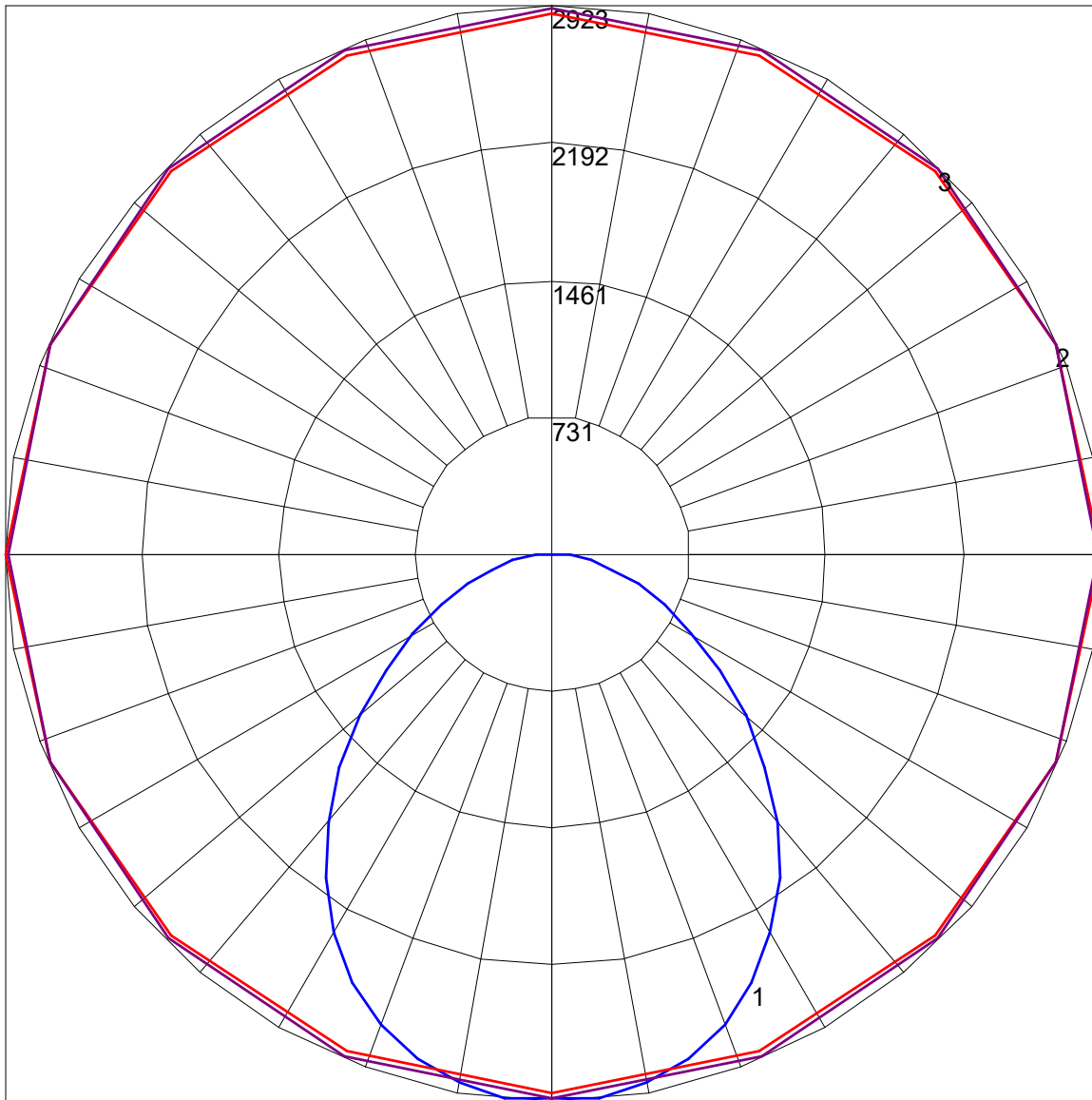
X=2H	Y=2H	15.4	16.9	15.8	17.3	17.6	15.1	16.7	15.5	17.0	17.3
	3H	16.8	18.2	17.2	18.6	18.9	16.7	18.1	17.0	18.4	18.7
	4H	17.4	18.7	17.8	19.1	19.5	17.3	18.6	17.7	19.0	19.4
	6H	17.9	19.1	18.3	19.4	19.8	17.9	19.1	18.3	19.5	19.9
	8H	18.0	19.2	18.5	19.6	20.0	18.1	19.2	18.5	19.6	20.0
	12H	18.1	19.2	18.5	19.6	20.0	18.2	19.3	18.7	19.7	20.2

UGR Viewed Endwise

4H	2H	15.8	17.2	16.2	17.5	17.9	15.6	16.9	16.0	17.3	17.7
	3H	17.5	18.6	17.9	19.0	19.4	17.4	18.5	17.8	18.9	19.3
	4H	18.2	19.2	18.7	19.6	20.1	18.2	19.2	18.6	19.6	20.0
	6H	18.8	19.7	19.3	20.1	20.6	18.9	19.8	19.4	20.2	20.7
	8H	19.0	19.8	19.5	20.3	20.7	19.2	20.0	19.6	20.4	20.9
	12H	19.2	19.9	19.7	20.4	20.8	19.4	20.1	19.9	20.6	21.1
8H	4H	18.5	19.3	18.9	19.7	20.2	18.5	19.3	18.9	19.7	20.2
	6H	19.2	19.9	19.7	20.4	20.9	19.3	20.0	19.8	20.5	21.0
	8H	19.5	20.1	20.0	20.6	21.1	19.7	20.3	20.2	20.8	21.3
	12H	19.7	20.2	20.2	20.7	21.3	20.0	20.5	20.5	21.0	21.6
12H	4H	18.5	19.3	19.0	19.7	20.2	18.5	19.2	19.0	19.7	20.2
	6H	19.3	19.9	19.8	20.4	20.9	19.4	20.0	19.9	20.5	21.0
	8H	19.6	20.1	20.1	20.6	21.2	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 2922.596 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)