



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L39-835-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] 2-56 LED 22" ARRAYS 2x2' RECESSED LUMINAIRE

[MORE] WHITE REFL w/.187" PRISMATIC PAT12 POLYCARB LENS & CA040 OVERLAY

[LUMCAT] V50G-S22-L39/835-FPC12187/CA040-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3247
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	33.7
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)	1.77 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	3738	3645	3611
55	3117	3039	2984
65	2551	2405	2441
75	2134	2069	2268
85	1697	1836	2057

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1394.417	1394.417	1394.417	1394.417	1394.417
5	1400.276	1392.073	1382.465	1378.481	1379.418
10	1375.903	1368.872	1358.092	1355.514	1355.983
15	1337.234	1330.204	1320.361	1315.674	1316.611
20	1280.989	1274.896	1265.053	1259.194	1260.366
25	1209.042	1201.308	1191.699	1186.075	1187.481
30	1117.877	1111.081	1100.769	1097.957	1096.551
35	1012.886	1008.902	997.887	993.434	992.497
40	895.708	891.958	880.240	870.632	874.147
45	770.562	757.672	751.345	740.096	744.314
50	644.010	637.213	626.199	617.762	615.653
55	521.207	517.926	508.083	495.663	498.944
60	411.294	404.732	393.483	393.015	389.031
65	314.271	304.663	296.226	300.913	300.679
70	230.372	226.856	220.529	228.263	230.372
75	161.002	158.659	156.081	167.564	171.080
80	101.476	100.539	101.242	111.085	114.600
85	43.121	42.184	46.637	55.777	52.261
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	504.34	N.A.	15.50
0-30	1053.43	N.A.	32.40
0-40	1677.51	N.A.	51.70
0-60	2715.01	N.A.	83.60
0-80	3192.22	N.A.	98.30
0-90	3247.04	N.A.	100.00
10-90	3115.51	N.A.	95.90
20-40	1173.17	N.A.	36.10
20-50	1754.36	N.A.	54.00
40-70	1341.62	N.A.	41.30
60-80	477.21	N.A.	14.70
70-80	173.10	N.A.	5.30
80-90	54.82	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	3247.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.53
10-20	372.81
20-30	549.09
30-40	624.08
40-50	581.20
50-60	456.31
60-70	304.11
70-80	173.10
80-90	54.82
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	15.5	17.1	15.9	17.4	17.7	15.2	16.8	15.6	17.1	17.4
	3H	17.0	18.4	17.3	18.7	19.1	16.8	18.2	17.2	18.5	18.9
	4H	17.5	18.8	17.9	19.2	19.6	17.4	18.7	17.8	19.1	19.5
	6H	18.0	19.2	18.4	19.6	20.0	18.0	19.2	18.4	19.6	20.0
	8H	18.1	19.3	18.6	19.7	20.1	18.2	19.4	18.6	19.8	20.2
	12H	18.2	19.3	18.7	19.7	20.2	18.4	19.5	18.8	19.8	20.3

UGR Viewed Endwise

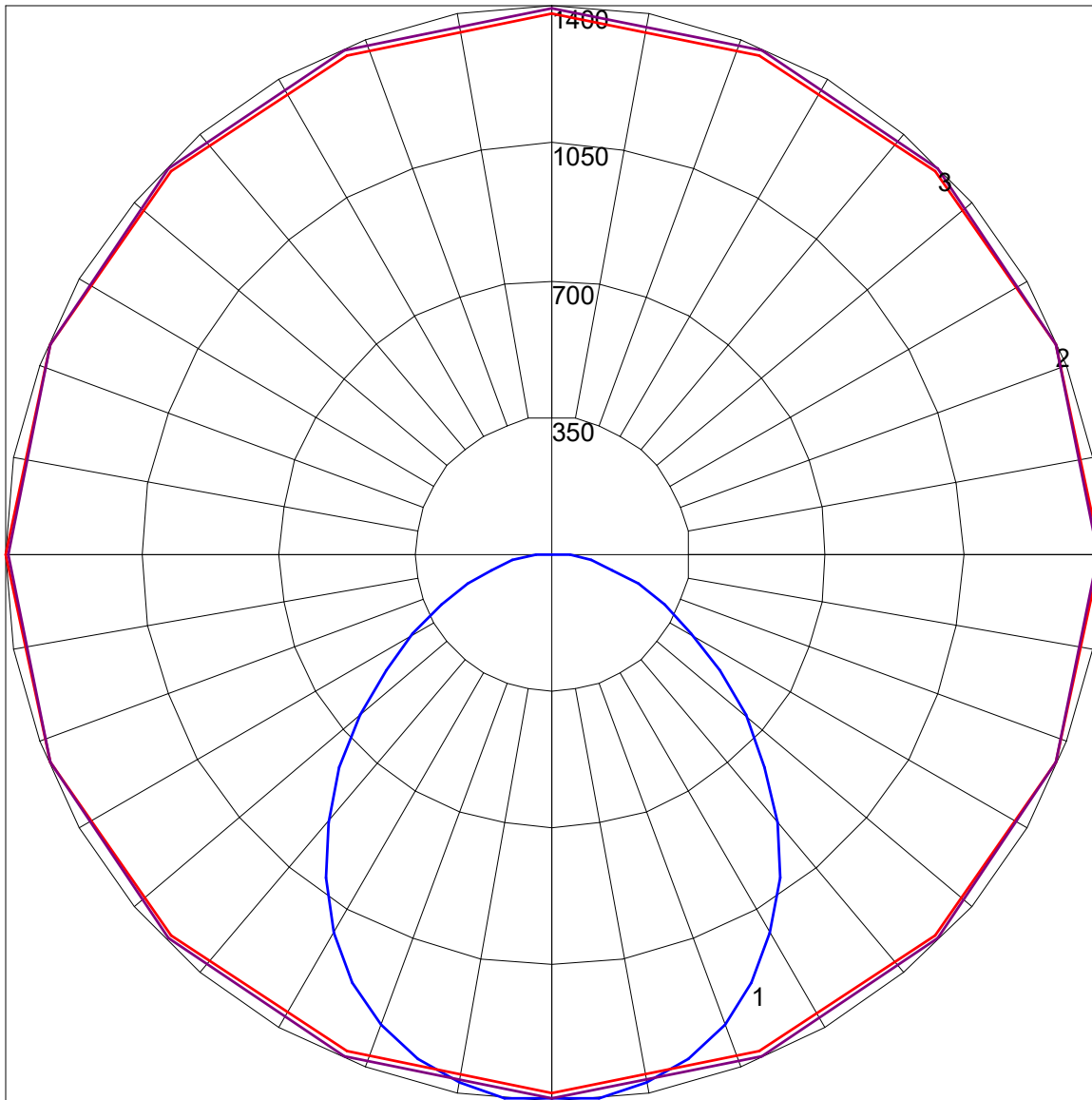
4H	2H	16.0	17.3	16.4	17.6	18.0	15.7	17.0	16.1	17.4	17.8
	3H	17.7	18.7	18.1	19.1	19.5	17.5	18.6	17.9	19.0	19.4
	4H	18.4	19.3	18.8	19.8	20.2	18.3	19.3	18.8	19.7	20.2
	6H	18.9	19.8	19.4	20.2	20.7	19.0	19.9	19.5	20.3	20.8
	8H	19.1	20.0	19.6	20.4	20.9	19.3	20.1	19.8	20.6	21.0
	12H	19.3	20.0	19.8	20.5	21.0	19.5	20.2	20.0	20.7	21.2

8H	4H	18.6	19.4	19.1	19.9	20.3	18.6	19.4	19.0	19.8	20.3
	6H	19.3	20.0	19.8	20.5	21.0	19.5	20.1	19.9	20.6	21.1
	8H	19.6	20.2	20.1	20.7	21.2	19.8	20.4	20.3	20.9	21.4
	12H	19.8	20.4	20.3	20.9	21.4	20.1	20.7	20.6	21.1	21.7

12H	4H	18.6	19.4	19.1	19.8	20.3	18.6	19.3	19.1	19.8	20.3
	6H	19.4	20.0	19.9	20.5	21.0	19.5	20.1	20.0	20.6	21.1
	8H	19.7	20.3	20.2	20.8	21.3	19.9	20.5	20.4	20.9	21.5

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1400.276 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)