



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S14-L39-835-FPC12187-CA040-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18123.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-APR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMINAIRE] 1x4' RECESSED LED TROFFER LUMINAIRE

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

[LUMCAT] 50G-S14-L39-835-FPC12187/CA040-DIM-UNV

[_SEARCH_SOURCE]TYPE]LED

[_SEARCH_APPLICATION]INDOOR,DIRECT

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	33.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4175	3963	3717
55	3348	3042	2742
65	2686	2364	2184
75	2140	1979	1979
85	2181	1973	2181

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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	1476.023	1476.023	1476.023	1476.023	1476.023
5	1472.107	1471.618	1472.107	1471.618	1473.086
10	1447.638	1447.638	1446.659	1446.659	1446.659
15	1391.357	1391.357	1388.910	1388.910	1388.420
20	1347.800	1346.822	1343.885	1341.928	1341.438
25	1229.366	1226.430	1223.004	1218.110	1218.110
30	1133.444	1129.529	1120.231	1109.464	1106.038
35	1035.076	1030.182	1015.010	995.434	988.093
40	904.896	896.576	875.532	850.083	838.338
45	798.207	784.993	757.587	722.840	710.605
50	650.899	635.238	604.895	568.190	557.424
55	519.251	504.569	471.779	438.011	425.286
60	398.859	384.177	356.771	330.833	320.555
65	306.852	294.617	270.147	253.997	249.593
70	219.739	211.420	193.312	188.418	188.907
75	149.756	145.351	138.499	135.074	138.499
80	99.837	96.901	92.496	94.943	96.411
85	51.387	48.940	46.493	50.897	51.387
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	533.27	N.A.	16.60
0-30	1098.97	N.A.	34.30
0-40	1727.78	N.A.	53.90
0-60	2729.15	N.A.	85.10
0-80	3154.9	N.A.	98.30
0-90	3207.84	N.A.	100.00
10-90	3068.18	N.A.	95.60
20-40	1194.52	N.A.	37.20
20-50	1770.45	N.A.	55.20
40-70	1274.96	N.A.	39.70
60-80	425.74	N.A.	13.30
70-80	152.15	N.A.	4.70
80-90	52.95	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	3207.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.66
10-20	393.60
20-30	565.70
30-40	628.82
40-50	575.93
50-60	425.44
60-70	273.59
70-80	152.15
80-90	52.95
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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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

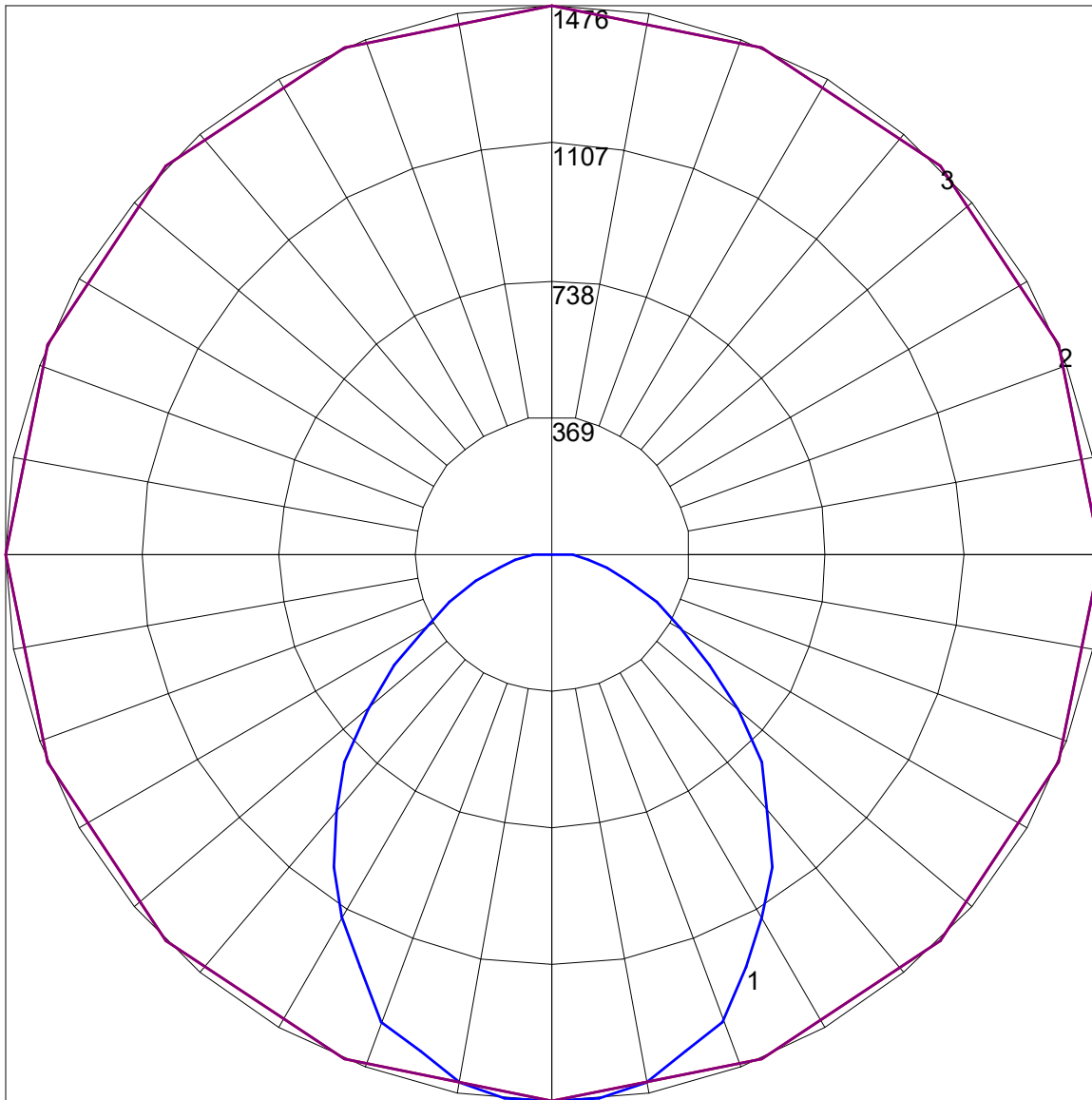
X=2H	Y=2H	15.6	17.1	15.9	17.4	17.7	14.5	16.0	14.8	16.3	16.6
	3H	17.0	18.3	17.4	18.7	19.0	15.9	17.3	16.3	17.6	18.0
	4H	17.5	18.8	17.9	19.1	19.5	16.5	17.8	16.9	18.1	18.5
	6H	18.0	19.1	18.4	19.5	19.9	17.1	18.2	17.5	18.6	19.0
	8H	18.1	19.3	18.6	19.6	20.0	17.3	18.4	17.7	18.8	19.2
	12H	18.3	19.4	18.7	19.7	20.2	17.5	18.6	17.9	18.9	19.4

UGR Viewed Endwise

4H	2H	15.9	17.2	16.3	17.6	17.9	15.0	16.3	15.4	16.7	17.0
	3H	17.6	18.6	18.0	19.0	19.4	16.7	17.8	17.1	18.2	18.6
	4H	18.2	19.2	18.7	19.6	20.0	17.4	18.4	17.8	18.8	19.2
	6H	18.8	19.7	19.3	20.1	20.6	18.1	18.9	18.6	19.4	19.8
	8H	19.1	19.9	19.5	20.3	20.8	18.4	19.2	18.9	19.6	20.1
	12H	19.3	20.0	19.8	20.5	20.9	18.7	19.4	19.1	19.8	20.3
8H	4H	18.4	19.2	18.9	19.7	20.1	17.7	18.5	18.2	18.9	19.4
	6H	19.2	19.8	19.7	20.3	20.8	18.6	19.2	19.0	19.7	20.2
	8H	19.5	20.1	20.0	20.6	21.1	19.0	19.5	19.5	20.0	20.5
	12H	19.8	20.3	20.3	20.8	21.4	19.3	19.8	19.8	20.3	20.9
12H	4H	18.5	19.2	18.9	19.6	20.1	17.7	18.5	18.2	18.9	19.4
	6H	19.3	19.8	19.8	20.3	20.8	18.7	19.2	19.2	19.7	20.2
	8H	19.6	20.2	20.1	20.6	21.2	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 1476.023 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (0)