



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S14-L59-835-FVL-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/CLEAR POLYCARB LENS & PAT12 PRISMATIC OVERLAY

[LUMCAT] 50G-S14-L59-835-FVL-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	5701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	54.4
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	7420	7042	6606
55	5951	5407	4874
65	4773	4202	3882
75	3803	3517	3517
85	3875	3506	3875

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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	2623.069	2623.069	2623.069	2623.069	2623.069
5	2616.111	2615.241	2616.111	2615.241	2617.850
10	2572.625	2572.625	2570.886	2570.886	2570.886
15	2472.607	2472.607	2468.259	2468.259	2467.389
20	2395.203	2393.463	2388.245	2384.766	2383.896
25	2184.731	2179.513	2173.425	2164.727	2164.727
30	2014.266	2007.308	1990.784	1971.650	1965.562
35	1839.453	1830.756	1803.795	1769.006	1755.960
40	1608.108	1593.323	1555.925	1510.700	1489.826
45	1418.510	1395.027	1346.323	1284.573	1262.830
50	1156.725	1128.894	1074.971	1009.742	990.608
55	922.770	896.679	838.408	778.397	755.785
60	708.820	682.728	634.024	587.929	569.665
65	545.313	523.570	480.084	451.383	443.556
70	390.503	375.718	343.538	334.841	335.711
75	266.134	258.306	246.130	240.042	246.130
80	177.422	172.204	164.377	168.725	171.334
85	91.320	86.972	82.623	90.451	91.320
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	947.68	N.A.	16.60
0-30	1952.99	N.A.	34.30
0-40	3070.48	N.A.	53.90
0-60	4850.03	N.A.	85.10
0-80	5606.63	N.A.	98.30
0-90	5700.72	N.A.	100.00
10-90	5452.52	N.A.	95.60
20-40	2122.8	N.A.	37.20
20-50	3146.3	N.A.	55.20
40-70	2265.76	N.A.	39.70
60-80	756.60	N.A.	13.30
70-80	270.39	N.A.	4.70
80-90	94.09	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	5700.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	248.20
10-20	699.48
20-30	1005.31
30-40	1117.48
40-50	1023.5
50-60	756.05
60-70	486.20
70-80	270.39
80-90	94.09
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

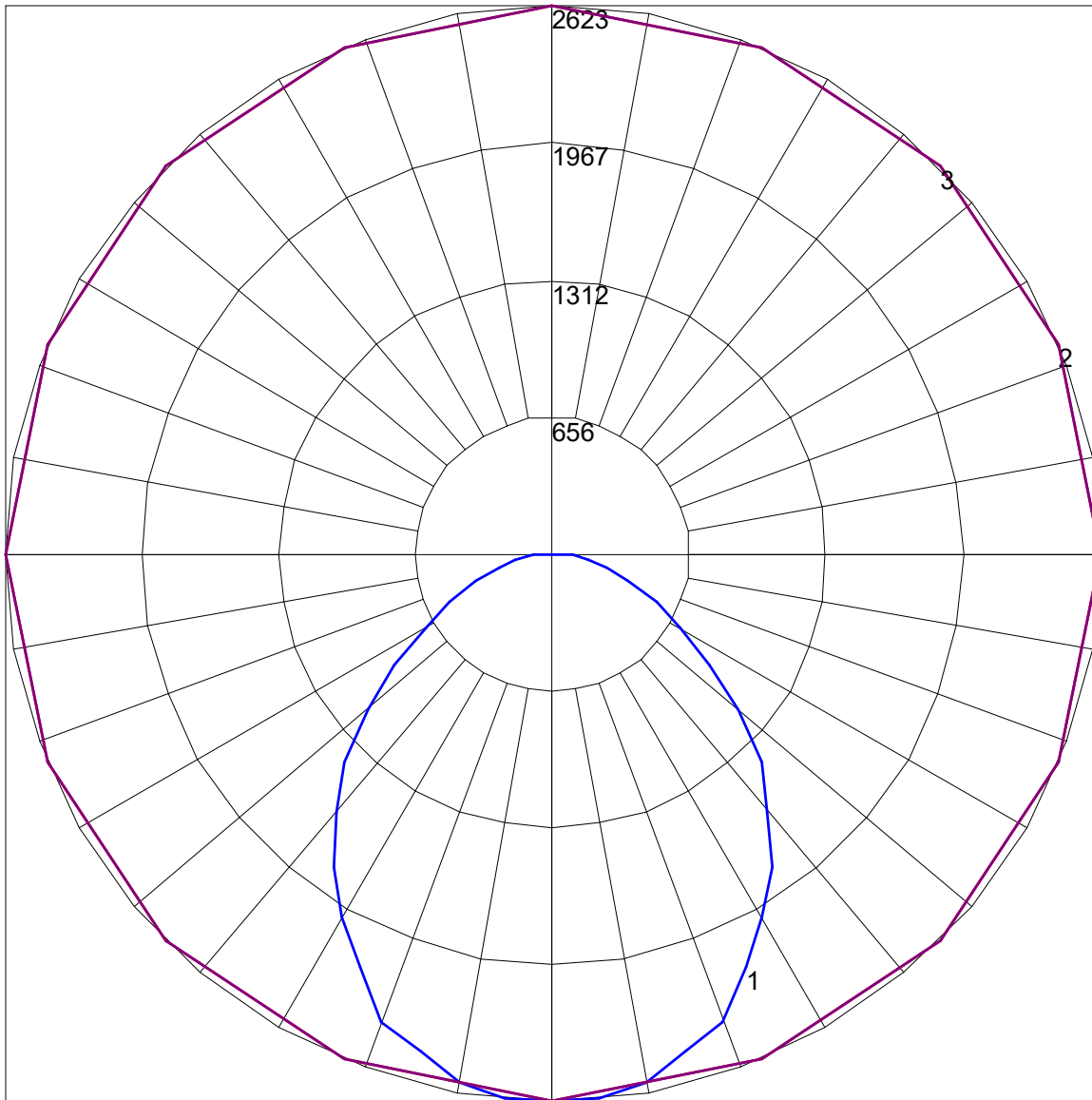
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	17.6	19.1	17.9	19.4	19.7	16.5	18.0	16.8	18.3	18.6
	3H	19.0	20.3	19.4	20.7	21.0	17.9	19.3	18.3	19.6	20.0
	4H	19.5	20.8	19.9	21.1	21.5	18.5	19.8	18.9	20.1	20.5
	6H	20.0	21.1	20.4	21.5	21.9	19.1	20.2	19.5	20.6	21.0
	8H	20.1	21.3	20.6	21.6	22.0	19.3	20.4	19.7	20.8	21.2
	12H	20.3	21.4	20.7	21.7	22.2	19.5	20.6	19.9	20.9	21.4
4H	2H	17.9	19.2	18.3	19.6	19.9	17.0	18.3	17.4	18.7	19.0
	3H	19.6	20.6	20.0	21.0	21.4	18.7	19.8	19.1	20.2	20.6
	4H	20.2	21.2	20.7	21.6	22.0	19.4	20.4	19.8	20.8	21.2
	6H	20.8	21.7	21.3	22.1	22.6	20.1	20.9	20.6	21.4	21.8
	8H	21.1	21.9	21.5	22.3	22.8	20.4	21.2	20.9	21.6	22.1
	12H	21.3	22.0	21.8	22.5	22.9	20.7	21.4	21.1	21.8	22.3
8H	4H	20.4	21.2	20.9	21.7	22.1	19.7	20.5	20.2	20.9	21.4
	6H	21.2	21.8	21.7	22.3	22.8	20.6	21.2	21.0	21.7	22.2
	8H	21.5	22.1	22.0	22.6	23.1	21.0	21.5	21.5	22.0	22.5
	12H	21.8	22.3	22.3	22.8	23.4	21.3	21.8	21.8	22.3	22.9
12H	4H	20.5	21.2	20.9	21.6	22.1	19.7	20.5	20.2	20.9	21.4
	6H	21.3	21.8	21.8	22.3	22.8	20.7	21.2	21.2	21.7	22.2
	8H	21.6	22.2	22.1	22.6	23.2	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 2623.069 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)