



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L65-940-SAF12125-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
[ISSUE DATE] 09-06-2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMINAIRE] 1' x 4' RECESSED LED TROFFER LUMINAIRE
[MORE] WHITE REFLECTOR w/PAT12 LENS PRISMS DOWN
[LUMCAT] 50G-S14-L65-940-SAF12125-DIM-UNV
[LAMP] LED
[LAMPCAT] HLM 90 CRI 4000K CCT
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] INDOOR, DIRECT
[SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	55.7
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	7346	6972	6540
55	5891	5353	4825
65	4725	4160	3843
75	3765	3482	3482
85	3837	3471	3837

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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	2596.935	2596.935	2596.935	2596.935	2596.935
5	2590.046	2589.185	2590.046	2589.185	2591.768
10	2546.994	2546.994	2545.271	2545.271	2545.271
15	2447.972	2447.972	2443.667	2443.667	2442.806
20	2371.339	2369.617	2364.450	2361.006	2360.145
25	2162.964	2157.798	2151.770	2143.160	2143.160
30	1994.198	1987.309	1970.949	1952.006	1945.979
35	1821.126	1812.516	1785.823	1751.381	1738.465
40	1592.086	1577.448	1540.423	1495.648	1474.983
45	1404.377	1381.128	1332.909	1271.775	1250.248
50	1145.200	1117.646	1064.261	999.682	980.739
55	913.577	887.745	830.055	770.642	748.255
60	701.758	675.926	627.707	582.072	563.989
65	539.880	518.354	475.301	446.886	439.137
70	386.613	371.975	340.116	331.505	332.366
75	263.482	255.733	243.678	237.651	243.678
80	175.655	170.488	162.739	167.044	169.627
85	90.411	86.105	81.800	89.549	90.411
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	938.24	N.A.	16.60
0-30	1933.54	N.A.	34.30
0-40	3039.89	N.A.	53.90
0-60	4801.71	N.A.	85.10
0-80	5550.77	N.A.	98.30
0-90	5643.92	N.A.	100.00
10-90	5398.2	N.A.	95.60
20-40	2101.65	N.A.	37.20
20-50	3114.95	N.A.	55.20
40-70	2243.18	N.A.	39.70
60-80	749.06	N.A.	13.30
70-80	267.70	N.A.	4.70
80-90	93.15	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	5643.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	245.73
10-20	692.51
20-30	995.30
30-40	1106.35
40-50	1013.3
50-60	748.52
60-70	481.36
70-80	267.70
80-90	93.15
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

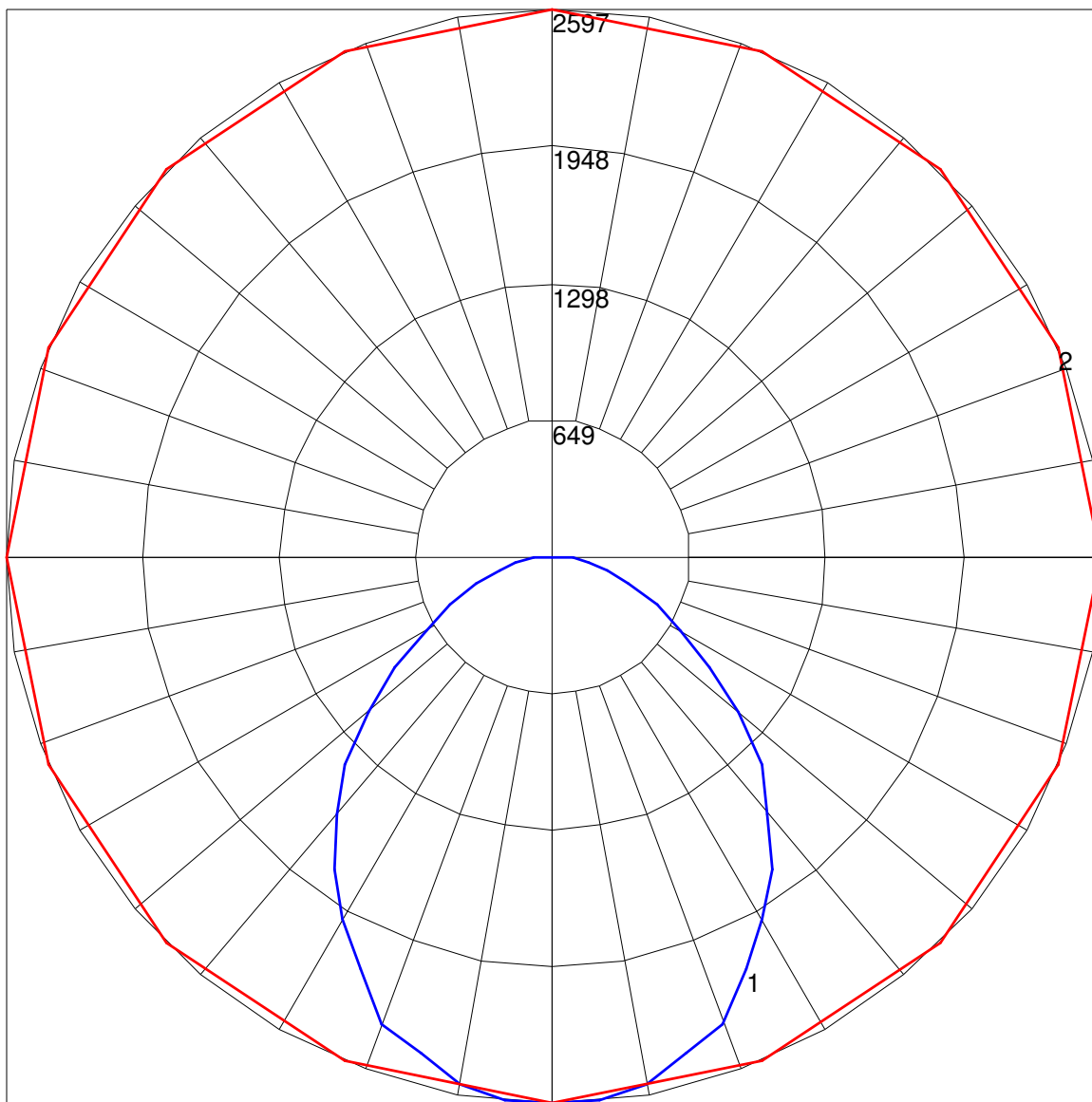
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UGR TABLE - CORRECTED

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	22.1	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	22.1	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 = 2596.935 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.)