

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L47-AMB-L47-835-SAF12125-2C-DIM-UNV_(AMBER ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18125.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 25-APR-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836

[LUMINAIRE] 2x4' LED TROFFER

[MORE] FROSTED ACRYLIC LENS

[LUMCAT] 50G-S24-L47-AMB-L47-835-SAF12125-DIM-UNV amber only

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,CLASSROOM, COMMERCIAL, EDUCATIONAL,OFFICE, DIRECT

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4749
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	41.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 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	2576	2540	2505
55	2126	2055	1992
65	1709	1607	1586
75	1385	1327	1400
85	1384	1384	1632

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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	2138.585	2138.585	2138.585	2138.585	2138.585
5	2117.534	2116.153	2114.428	2113.392	2113.392
10	2079.227	2076.812	2078.537	2079.227	2079.227
15	1994.333	1994.333	1994.333	1996.749	1997.784
20	1920.136	1920.136	1922.552	1926.003	1922.552
25	1758.284	1756.559	1761.735	1764.841	1764.151
30	1619.899	1618.174	1621.625	1621.625	1625.076
35	1457.357	1456.667	1453.906	1453.216	1459.773
40	1289.639	1286.533	1279.631	1274.109	1278.941
45	1131.238	1127.097	1115.363	1105.355	1099.834
50	930.390	922.107	912.789	897.260	887.942
55	757.149	744.381	731.957	712.977	709.526
60	585.980	575.972	560.097	545.258	543.532
65	448.630	440.348	421.712	416.191	416.191
70	326.810	321.978	306.104	311.970	312.661
75	222.589	219.138	213.272	220.864	225.005
80	150.118	147.703	147.703	154.260	159.091
85	74.887	72.471	74.887	84.895	88.346
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	765.40	N.A.	16.10
0-30	1579.75	N.A.	33.30
0-40	2489.39	N.A.	52.40
0-60	3998.12	N.A.	84.20
0-80	4665.36	N.A.	98.20
0-90	4749.21	N.A.	100.00
10-90	4548.35	N.A.	95.80
20-40	1723.99	N.A.	36.30
20-50	2577.23	N.A.	54.30
40-70	1937.24	N.A.	40.80
60-80	667.23	N.A.	14.00
70-80	238.73	N.A.	5.00
80-90	83.86	N.A.	1.80
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	4749.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.86
10-20	564.54
20-30	814.34
30-40	909.65
40-50	853.24
50-60	655.49
60-70	428.51
70-80	238.73
80-90	83.86
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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	86	82	79	76	84	81	78	75	77	75	73	74	72	71	71	70	69	67
2	79	73	68	64	77	71	67	63	68	65	61	66	63	60	64	61	59	57
3	72	65	59	54	70	63	58	53	61	56	52	59	55	52	57	54	51	49
4	67	58	51	46	65	57	51	46	55	50	45	53	49	45	51	47	44	43
5	62	52	45	41	60	51	45	40	50	44	40	48	43	39	47	42	39	37
6	57	47	41	36	56	46	40	36	45	39	35	44	39	35	43	38	35	33
7	53	43	36	32	52	42	36	32	41	36	32	40	35	31	39	35	31	30
8	50	39	33	29	48	39	33	29	38	32	28	37	32	28	36	32	28	27
9	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26	24
10	44	34	28	24	43	33	28	24	33	27	24	32	27	24	31	27	23	22

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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	15.0	16.5	15.3	16.8	17.1	14.6	16.1	15.0	16.4	16.8
	3H	16.4	17.8	16.8	18.1	18.5	16.0	17.4	16.4	17.8	18.1
	4H	16.9	18.2	17.3	18.6	19.0	16.6	17.9	17.0	18.3	18.7
	6H	17.4	18.6	17.8	19.0	19.4	17.2	18.4	17.6	18.7	19.1
	8H	17.6	18.7	18.0	19.1	19.5	17.4	18.6	17.8	18.9	19.3
	12H	17.7	18.8	18.1	19.2	19.6	17.6	18.7	18.0	19.1	19.5

UGR Viewed Endwise

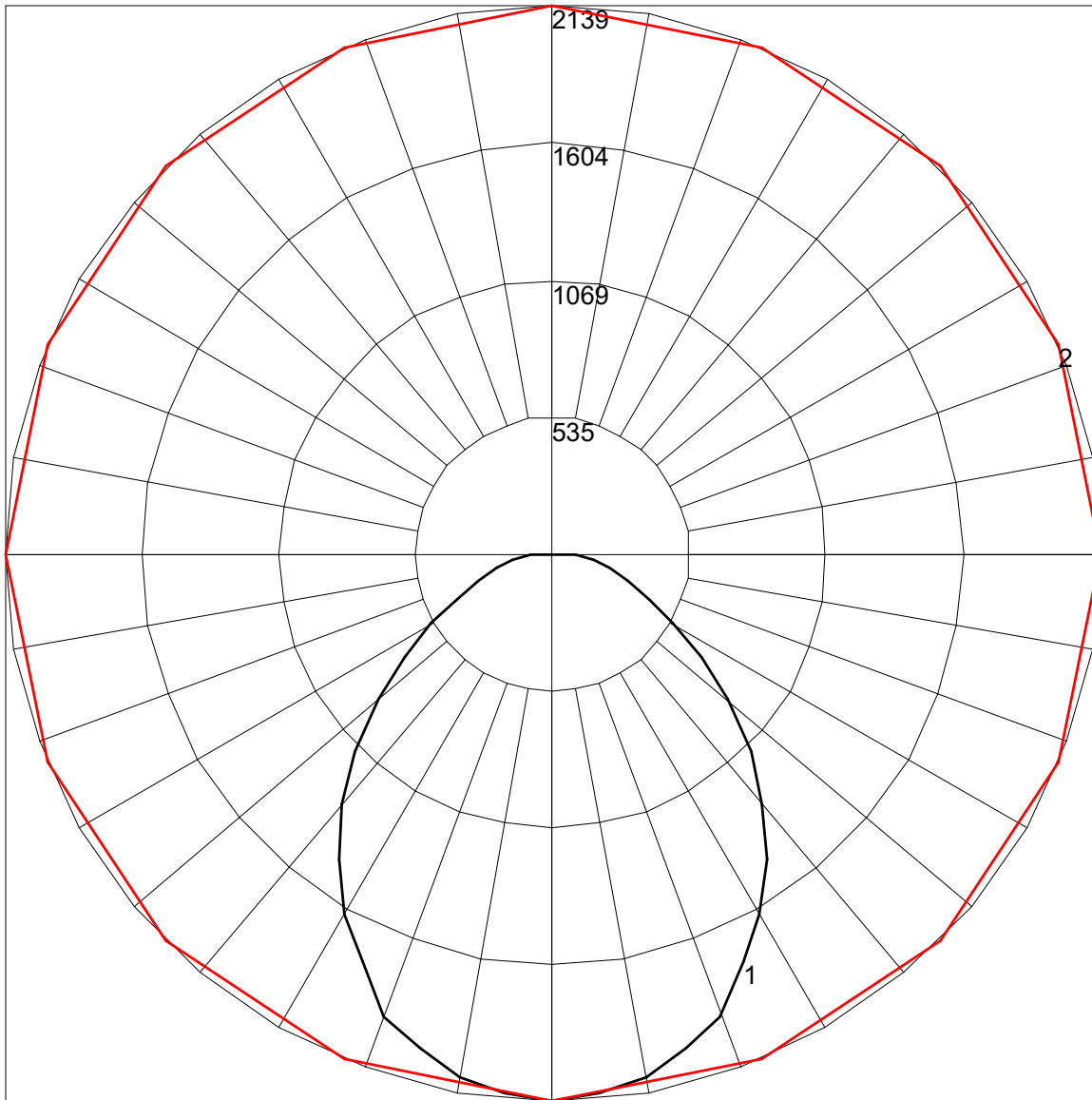
4H	2H	15.4	16.7	15.8	17.0	17.4	15.1	16.4	15.5	16.7	17.1
	3H	17.0	18.1	17.5	18.5	18.9	16.8	17.9	17.2	18.3	18.7
	4H	17.7	18.7	18.1	19.1	19.5	17.5	18.5	17.9	18.9	19.3
	6H	18.3	19.2	18.8	19.6	20.1	18.2	19.0	18.7	19.5	19.9
	8H	18.6	19.4	19.0	19.8	20.3	18.5	19.3	19.0	19.7	20.2
	12H	18.8	19.5	19.3	20.0	20.4	18.8	19.5	19.3	20.0	20.4
8H	4H	18.0	18.8	18.4	19.2	19.7	17.8	18.6	18.2	19.0	19.5
	6H	18.7	19.4	19.2	19.9	20.3	18.6	19.3	19.1	19.8	20.2
	8H	19.0	19.6	19.6	20.2	20.6	19.0	19.6	19.5	20.1	20.6
	12H	19.3	19.9	19.8	20.4	20.9	19.4	19.9	19.9	20.4	21.0
12H	4H	18.0	18.7	18.5	19.2	19.7	17.8	18.5	18.3	19.0	19.5
	6H	18.8	19.4	19.3	19.9	20.4	18.7	19.3	19.2	19.8	20.3
	8H	19.2	19.7	19.7	20.2	20.8	19.1	19.7	19.7	20.2	20.7

Maximum UGR = 21.0

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POLAR GRAPH



Maximum Candela = 2138.585 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)