

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L47-AMB-L47-835-SAF12125-2C-DIM-UNV_(WHITE 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

[ISSUE DATE] 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 white only

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE TYPE]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	4759
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	34.55
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	2582	2545	2510
55	2130	2059	1996
65	1713	1610	1589
75	1388	1330	1403
85	1386	1386	1636

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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	2143.108	2143.108	2143.108	2143.108	2143.108
5	2122.013	2120.630	2118.900	2117.863	2117.863
10	2083.626	2081.205	2082.934	2083.626	2083.626
15	1998.552	1998.552	1998.552	2000.972	2002.010
20	1924.198	1924.198	1926.619	1930.077	1926.619
25	1762.004	1760.275	1765.462	1768.575	1767.883
30	1623.326	1621.597	1625.055	1625.055	1628.513
35	1460.440	1459.748	1456.982	1456.290	1462.861
40	1292.367	1289.254	1282.338	1276.804	1281.646
45	1133.631	1129.481	1117.723	1107.693	1102.160
50	932.358	924.058	914.720	899.158	889.821
55	758.751	745.955	733.505	714.485	711.026
60	587.219	577.190	561.282	546.411	544.682
65	449.579	441.279	422.604	417.071	417.071
70	327.501	322.659	306.751	312.630	313.322
75	223.060	219.602	213.723	221.331	225.481
80	150.436	148.015	148.015	154.586	159.428
85	75.045	72.624	75.045	85.074	88.532
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	767.02	N.A.	16.10
0-30	1583.09	N.A.	33.30
0-40	2494.66	N.A.	52.40
0-60	4006.58	N.A.	84.20
0-80	4675.22	N.A.	98.20
0-90	4759.26	N.A.	100.00
10-90	4557.98	N.A.	95.80
20-40	1727.64	N.A.	36.30
20-50	2582.68	N.A.	54.30
40-70	1941.33	N.A.	40.80
60-80	668.64	N.A.	14.00
70-80	239.23	N.A.	5.00
80-90	84.03	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	4759.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.28
10-20	565.74
20-30	816.07
30-40	911.57
40-50	855.04
50-60	656.88
60-70	429.41
70-80	239.23
80-90	84.03
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	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	93	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	36	30	55	43	35	30	42	35	30	41	34	30	40	34	30	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	14.1	15.6	14.4	15.9	16.2	13.7	15.2	14.1	15.5	15.9
	3H	15.5	16.9	15.9	17.2	17.6	15.1	16.5	15.5	16.9	17.2
	4H	16.0	17.3	16.4	17.7	18.1	15.7	17.0	16.1	17.4	17.8
	6H	16.5	17.7	16.9	18.1	18.5	16.3	17.5	16.7	17.8	18.2
	8H	16.7	17.8	17.1	18.2	18.6	16.5	17.7	16.9	18.0	18.4
	12H	16.8	17.9	17.2	18.3	18.7	16.7	17.8	17.1	18.2	18.6

UGR Viewed Endwise

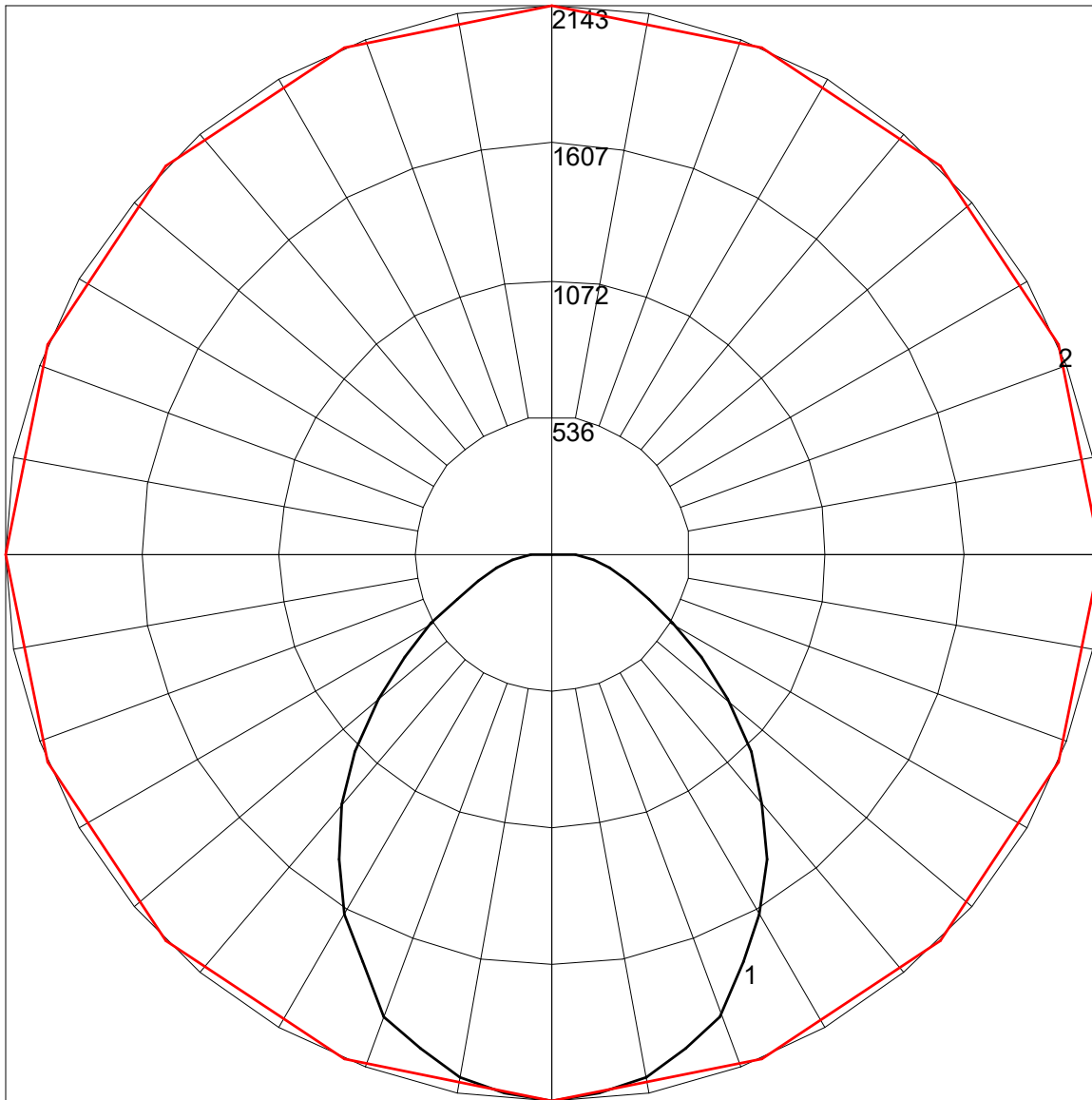
4H	2H	14.5	15.8	14.9	16.1	16.5	14.2	15.5	14.6	15.8	16.2
	3H	16.1	17.2	16.6	17.6	18.0	15.9	17.0	16.3	17.4	17.8
	4H	16.8	17.8	17.3	18.2	18.6	16.6	17.6	17.0	18.0	18.4
	6H	17.4	18.3	17.9	18.7	19.2	17.3	18.1	17.8	18.6	19.0
	8H	17.7	18.5	18.1	18.9	19.4	17.6	18.4	18.1	18.8	19.3
	12H	17.9	18.6	18.4	19.1	19.5	17.9	18.6	18.4	19.1	19.5
8H	4H	17.1	17.9	17.5	18.3	18.8	16.9	17.7	17.3	18.1	18.6
	6H	17.8	18.5	18.3	19.0	19.4	17.7	18.4	18.2	18.9	19.3
	8H	18.1	18.7	18.7	19.3	19.7	18.1	18.7	18.6	19.2	19.7
	12H	18.4	19.0	18.9	19.5	20.0	18.5	19.0	19.0	19.5	20.1
12H	4H	17.1	17.8	17.6	18.3	18.8	16.9	17.6	17.4	18.1	18.6
	6H	17.9	18.5	18.4	19.0	19.5	17.8	18.4	18.3	18.9	19.4
	8H	18.3	18.8	18.8	19.3	19.9	18.2	18.8	18.8	19.3	19.8

Maximum UGR = 20.1

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POLAR GRAPH



Maximum Candela = 2143.108 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.)