



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-850-SAF12125-(L45)-DIM-UNV_.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] 08-04-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 2x4' LED TROFFER
 [MORE] FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S24-L59-850-SAF12125-(L45)-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 5000K 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	4829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	34.6
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	2619	2583	2547
55	2161	2089	2025
65	1738	1634	1612
75	1408	1349	1423
85	1407	1407	1660

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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	2174.489	2174.489	2174.489	2174.489	2174.489
5	2153.084	2151.681	2149.926	2148.874	2148.874
10	2114.135	2111.679	2113.433	2114.135	2114.135
15	2027.815	2027.815	2027.815	2030.272	2031.324
20	1952.373	1952.373	1954.829	1958.338	1954.829
25	1787.804	1786.049	1791.313	1794.471	1793.769
30	1647.095	1645.341	1648.850	1648.850	1652.359
35	1481.824	1481.123	1478.316	1477.614	1484.281
40	1311.290	1308.132	1301.114	1295.500	1300.412
45	1150.230	1146.019	1134.089	1123.913	1118.299
50	946.010	937.588	928.114	912.324	902.850
55	769.861	756.878	744.246	724.947	721.438
60	595.818	585.642	569.501	554.412	552.658
65	456.162	447.740	428.792	423.178	423.178
70	332.296	327.384	311.243	317.208	317.910
75	226.326	222.818	216.852	224.572	228.783
80	152.639	150.183	150.183	156.850	161.762
85	76.144	73.688	76.144	86.320	89.829
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	778.25	N.A.	16.10
0-30	1606.27	N.A.	33.30
0-40	2531.19	N.A.	52.40
0-60	4065.25	N.A.	84.20
0-80	4743.68	N.A.	98.20
0-90	4828.95	N.A.	100.00
10-90	4624.72	N.A.	95.80
20-40	1752.94	N.A.	36.30
20-50	2620.5	N.A.	54.30
40-70	1969.76	N.A.	40.80
60-80	678.44	N.A.	14.00
70-80	242.73	N.A.	5.00
80-90	85.26	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	4828.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.23
10-20	574.02
20-30	828.02
30-40	924.92
40-50	867.56
50-60	666.50
60-70	435.70
70-80	242.73
80-90	85.26
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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	54
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	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	14.2	15.7	14.5	16.0	16.3	13.8	15.3	14.2	15.6	16.0
	3H	15.6	17.0	16.0	17.3	17.7	15.2	16.6	15.6	17.0	17.3
	4H	16.1	17.4	16.5	17.8	18.2	15.8	17.1	16.2	17.5	17.9
	6H	16.6	17.8	17.0	18.2	18.6	16.4	17.6	16.8	17.9	18.3
	8H	16.8	17.9	17.2	18.3	18.7	16.6	17.8	17.0	18.1	18.5
	12H	16.9	18.0	17.3	18.4	18.8	16.8	17.9	17.2	18.3	18.7

UGR Viewed Endwise

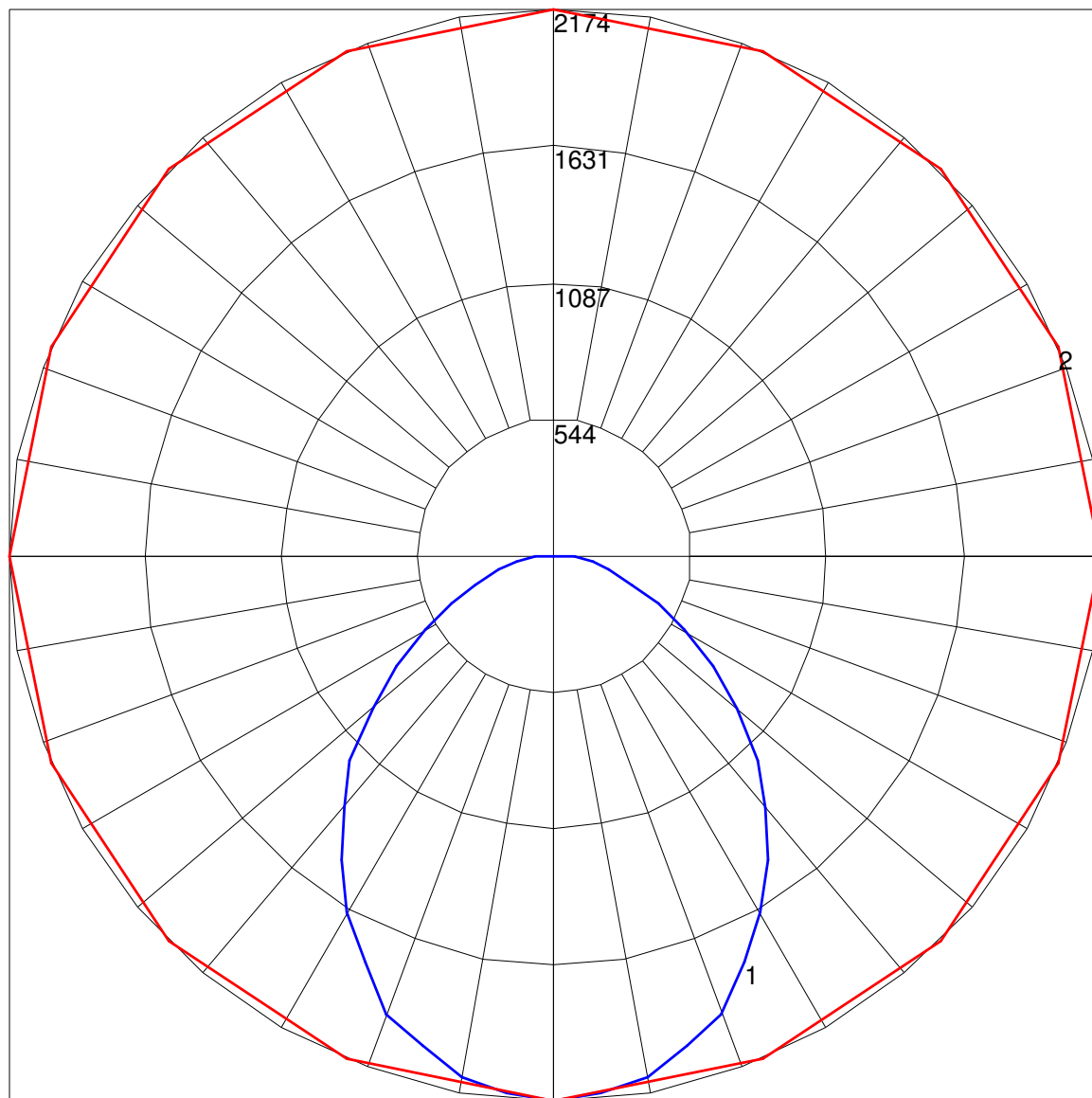
4H	2H	14.6	15.9	15.0	16.2	16.6	14.3	15.6	14.7	15.9	16.3
	3H	16.2	17.3	16.7	17.7	18.1	16.0	17.1	16.4	17.5	17.9
	4H	16.9	17.9	17.3	18.3	18.7	16.7	17.7	17.1	18.1	18.5
	6H	17.5	18.4	18.0	18.8	19.3	17.4	18.2	17.9	18.7	19.1
	8H	17.8	18.6	18.2	19.0	19.5	17.7	18.5	18.2	18.9	19.4
	12H	18.0	18.7	18.5	19.2	19.6	18.0	18.7	18.5	19.2	19.6

8H	4H	17.2	18.0	17.6	18.4	18.9	17.0	17.8	17.4	18.2	18.7
	6H	17.9	18.6	18.4	19.1	19.5	17.8	18.5	18.3	19.0	19.4
	8H	18.2	18.8	18.8	19.4	19.8	18.2	18.8	18.7	19.3	19.8
	12H	18.5	19.1	19.0	19.6	20.1	18.6	19.1	19.1	19.6	20.2

12H	4H	17.2	17.9	17.7	18.4	18.9	17.0	17.7	17.5	18.2	18.7
	6H	18.0	18.6	18.5	19.1	19.6	17.9	18.5	18.4	19.0	19.5
	8H	18.4	18.9	18.9	19.4	20.0	18.3	18.9	18.9	19.4	19.9

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 2174.489 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.)