



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L45-840-FAF12125-EM10W-DIM-UNV_EMER MODE.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] 11-19-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 1x4' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S14-L45-840-FAF12125-EM10W-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 4000K 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	1320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	10
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	1718	1631	1529
55	1378	1252	1128
65	1105	973	899
75	881	814	814
85	897	812	897

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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	607.341	607.341	607.341	607.341	607.341
5	605.730	605.529	605.730	605.529	606.133
10	595.661	595.661	595.259	595.259	595.259
15	572.503	572.503	571.497	571.497	571.295
20	554.581	554.178	552.970	552.165	551.963
25	505.849	504.641	503.231	501.217	501.217
30	466.380	464.769	460.943	456.513	455.103
35	425.904	423.890	417.648	409.593	406.572
40	372.339	368.915	360.256	349.785	344.952
45	328.439	323.002	311.725	297.428	292.394
50	267.826	261.382	248.897	233.794	229.364
55	213.657	207.616	194.124	180.229	174.993
60	164.119	158.078	146.801	136.128	131.899
65	126.261	121.227	111.158	104.513	102.700
70	90.416	86.993	79.542	77.529	77.730
75	61.620	59.808	56.989	55.579	56.989
80	41.080	39.872	38.059	39.066	39.670
85	21.144	20.137	19.130	20.943	21.144
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	219.42	N.A.	16.60
0-30	452.19	N.A.	34.30
0-40	710.93	N.A.	53.90
0-60	1122.97	N.A.	85.10
0-80	1298.15	N.A.	98.30
0-90	1319.94	N.A.	100.00
10-90	1262.47	N.A.	95.60
20-40	491.51	N.A.	37.20
20-50	728.49	N.A.	55.20
40-70	524.61	N.A.	39.70
60-80	175.18	N.A.	13.30
70-80	62.61	N.A.	4.70
80-90	21.79	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	1319.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.47
10-20	161.96
20-30	232.77
30-40	258.74
40-50	236.98
50-60	175.05
60-70	112.58
70-80	62.61
80-90	21.79
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

X=2H	Y=2H	12.6	14.1	12.9	14.4	14.7	11.5	13.0	11.8	13.3	13.6
	3H	14.0	15.3	14.4	15.7	16.0	12.9	14.3	13.3	14.6	15.0
	4H	14.5	15.8	14.9	16.1	16.5	13.5	14.8	13.9	15.1	15.5
	6H	15.0	16.1	15.4	16.5	16.9	14.1	15.2	14.5	15.6	16.0
	8H	15.1	16.3	15.6	16.6	17.0	14.3	15.4	14.7	15.8	16.2
	12H	15.3	16.4	15.7	16.7	17.2	14.5	15.6	14.9	15.9	16.4

UGR Viewed Endwise

4H	2H	12.9	14.2	13.3	14.6	14.9	12.0	13.3	12.4	13.7	14.0
	3H	14.6	15.6	15.0	16.0	16.4	13.7	14.8	14.1	15.2	15.6
	4H	15.2	16.2	15.7	16.6	17.0	14.4	15.4	14.8	15.8	16.2
	6H	15.8	16.7	16.3	17.1	17.6	15.1	15.9	15.6	16.4	16.8
	8H	16.1	16.9	16.5	17.3	17.8	15.4	16.2	15.9	16.6	17.1
	12H	16.3	17.0	16.8	17.5	17.9	15.7	16.4	16.1	16.8	17.3

8H	4H	15.4	16.2	15.9	16.7	17.1	14.7	15.5	15.2	15.9	16.4
	6H	16.2	16.8	16.7	17.3	17.8	15.6	16.2	16.0	16.7	17.2
	8H	16.5	17.1	17.0	17.6	18.1	16.0	16.5	16.5	17.0	17.5
	12H	16.8	17.3	17.3	17.8	18.4	16.3	16.8	16.8	17.3	17.9

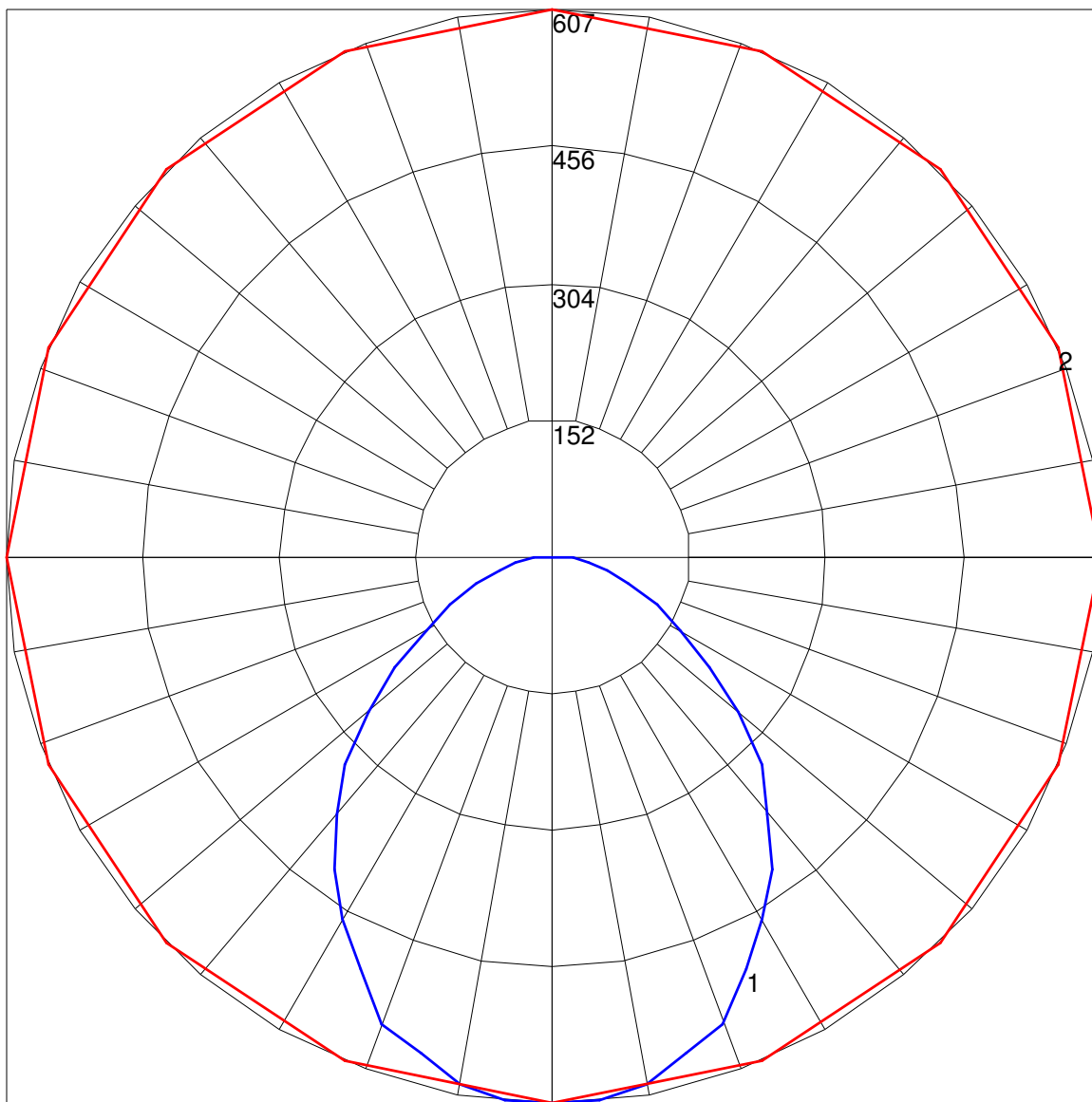
12H	4H	15.5	16.2	15.9	16.6	17.1	14.7	15.5	15.2	15.9	16.4
	6H	16.3	16.8	16.8	17.3	17.8	15.7	16.2	16.2	16.7	17.2
	8H	16.6	17.2	17.1	17.6	18.2	16.1	16.6	16.6	17.1	17.7

Maximum UGR = 18.4

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POLAR GRAPH



Maximum Candela = 607.341 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.)