



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L45-850-SAF12125-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] 06-17-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMINAIRE] 1x4' LED TROFFER  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] 50G-S14-L45-835-SAF12125-EM10W-DIM-UNV(EMER MODE)  
 [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	1360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
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	1770	1680	1576
55	1420	1290	1163
65	1139	1002	926
75	907	839	839
85	925	836	925

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	625.745	625.745	625.745	625.745	625.745
<b>5</b>	624.085	623.878	624.085	623.878	624.500
<b>10</b>	613.712	613.712	613.297	613.297	613.297
<b>15</b>	589.852	589.852	588.815	588.815	588.607
<b>20</b>	571.387	570.972	569.727	568.897	568.690
<b>25</b>	521.178	519.933	518.481	516.406	516.406
<b>30</b>	480.513	478.853	474.911	470.346	468.894
<b>35</b>	438.810	436.735	430.304	422.005	418.892
<b>40</b>	383.622	380.095	371.173	360.384	355.405
<b>45</b>	338.392	332.790	321.172	306.441	301.254
<b>50</b>	275.942	269.303	256.439	240.879	236.314
<b>55</b>	220.131	213.907	200.006	185.690	180.296
<b>60</b>	169.092	162.868	151.249	140.253	135.896
<b>65</b>	130.087	124.900	114.526	107.680	105.812
<b>70</b>	93.156	89.629	81.953	79.878	80.085
<b>75</b>	63.487	61.620	58.715	57.263	58.715
<b>80</b>	42.325	41.080	39.213	40.250	40.873
<b>85</b>	21.785	20.748	19.710	21.577	21.785
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	226.07	N.A.	16.60
0-30	465.90	N.A.	34.30
0-40	732.48	N.A.	53.90
0-60	1157.00	N.A.	85.10
0-80	1337.49	N.A.	98.30
0-90	1359.93	N.A.	100.00
10-90	1300.72	N.A.	95.60
20-40	506.40	N.A.	37.20
20-50	750.56	N.A.	55.20
40-70	540.51	N.A.	39.70
60-80	180.49	N.A.	13.30
70-80	64.50	N.A.	4.70
80-90	22.45	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	1359.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	59.21
10-20	166.86
20-30	239.82
30-40	266.58
40-50	244.16
50-60	180.36
60-70	115.99
70-80	64.50
80-90	22.45
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	12.7	14.2	13.0	14.5	14.8	11.6	13.1	11.9	13.4	13.7
	3H	14.1	15.4	14.5	15.8	16.1	13.0	14.4	13.4	14.7	15.1
	4H	14.6	15.9	15.0	16.2	16.6	13.6	14.9	14.0	15.2	15.6
	6H	15.1	16.2	15.5	16.6	17.0	14.2	15.3	14.6	15.7	16.1
	8H	15.2	16.4	15.7	16.7	17.1	14.4	15.5	14.8	15.9	16.3
	12H	15.4	16.5	15.8	16.8	17.3	14.6	15.7	15.0	16.0	16.5

### UGR Viewed Endwise

4H	2H	13.0	14.3	13.4	14.7	15.0	12.1	13.4	12.5	13.8	14.1
	3H	14.7	15.7	15.1	16.1	16.5	13.8	14.9	14.2	15.3	15.7
	4H	15.3	16.3	15.8	16.7	17.1	14.5	15.5	14.9	15.9	16.3
	6H	15.9	16.8	16.4	17.2	17.7	15.2	16.0	15.7	16.5	16.9
	8H	16.2	17.0	16.6	17.4	17.9	15.5	16.3	16.0	16.7	17.2
	12H	16.4	17.1	16.9	17.6	18.0	15.8	16.5	16.2	16.9	17.4

8H	4H	15.5	16.3	16.0	16.8	17.2	14.8	15.6	15.3	16.0	16.5
	6H	16.3	16.9	16.8	17.4	17.9	15.7	16.3	16.1	16.8	17.3
	8H	16.6	17.2	17.1	17.7	18.2	16.1	16.6	16.6	17.1	17.6
	12H	16.9	17.4	17.4	17.9	18.5	16.4	16.9	16.9	17.4	18.0

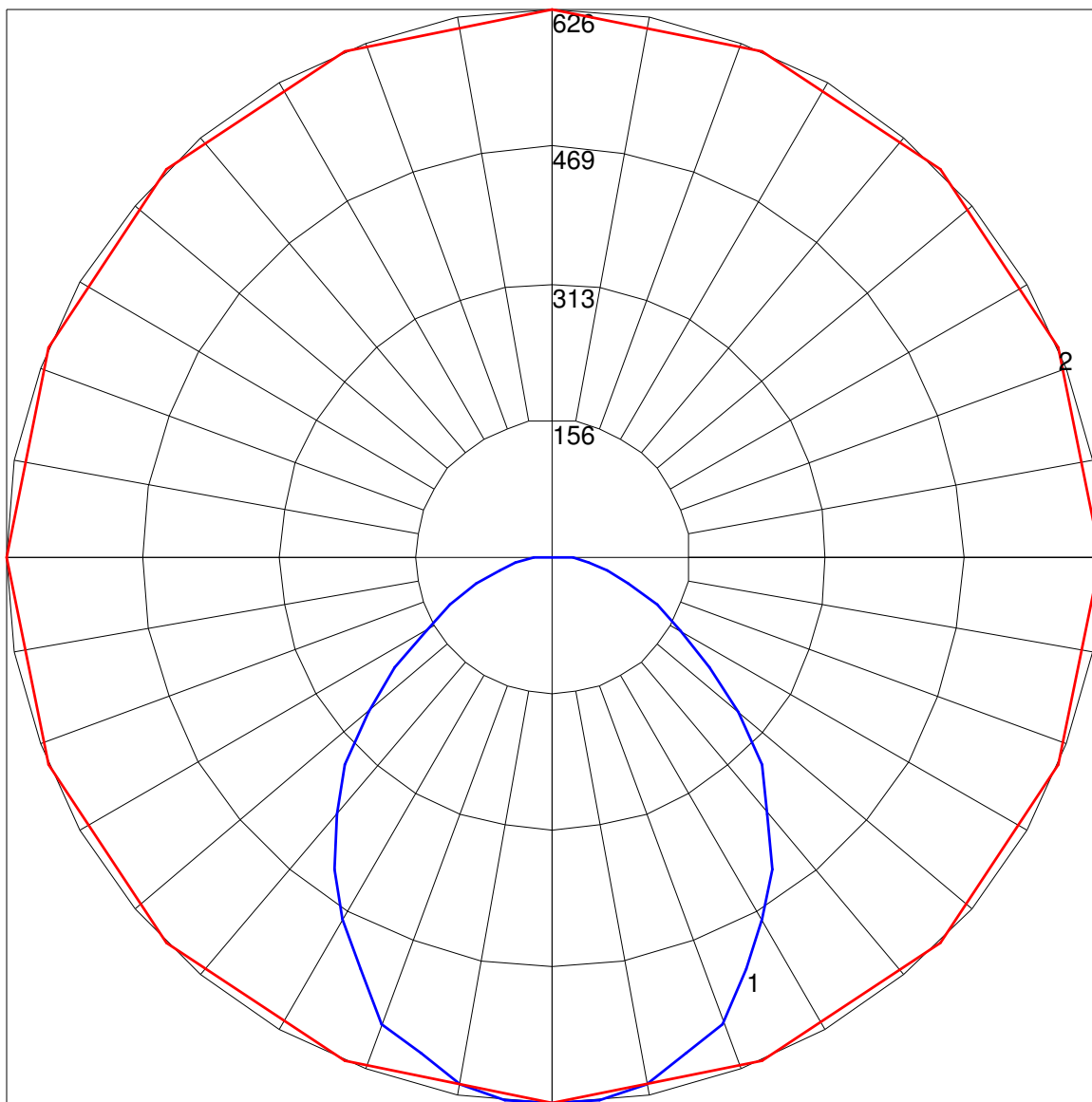
12H	4H	15.6	16.3	16.0	16.7	17.2	14.8	15.6	15.3	16.0	16.5
	6H	16.4	16.9	16.9	17.4	17.9	15.8	16.3	16.3	16.8	17.3
	8H	16.7	17.3	17.2	17.7	18.3	16.2	16.7	16.7	17.2	17.8

Maximum UGR = 18.5

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## POLAR GRAPH



Maximum Candela = 625.745 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.)