



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L27-835-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] 11-05-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMINAIRE] 1x4' LED TROFFER  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] 50G-S14-L27-835-SAF12125-EM10W-DIM-UNV (EMER MODE)  
 [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	1310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	1705	1618	1518
55	1367	1242	1120
65	1097	965	892
75	874	808	808
85	891	806	891

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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>	602.740	602.740	602.740	602.740	602.740
<b>5</b>	601.141	600.941	601.141	600.941	601.541
<b>10</b>	591.149	591.149	590.749	590.749	590.749
<b>15</b>	568.166	568.166	567.167	567.167	566.967
<b>20</b>	550.380	549.980	548.781	547.982	547.782
<b>25</b>	502.017	500.818	499.419	497.420	497.420
<b>30</b>	462.847	461.248	457.451	453.054	451.655
<b>35</b>	422.677	420.679	414.484	406.490	403.492
<b>40</b>	369.518	366.120	357.527	347.135	342.339
<b>45</b>	325.951	320.555	309.364	295.175	290.178
<b>50</b>	265.797	259.402	247.011	232.023	227.626
<b>55</b>	212.038	206.043	192.653	178.863	173.667
<b>60</b>	162.876	156.880	145.689	135.097	130.900
<b>65</b>	125.304	120.308	110.316	103.721	101.922
<b>70</b>	89.731	86.334	78.940	76.941	77.141
<b>75</b>	61.153	59.355	56.557	55.158	56.557
<b>80</b>	40.769	39.570	37.771	38.770	39.370
<b>85</b>	20.984	19.985	18.986	20.784	20.984
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 50G-S14-L27-835-SAF12125-EM10W-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	217.76	N.A.	16.60
0-30	448.77	N.A.	34.30
0-40	705.55	N.A.	53.90
0-60	1114.46	N.A.	85.10
0-80	1288.32	N.A.	98.30
0-90	1309.94	N.A.	100.00
10-90	1252.9	N.A.	95.60
20-40	487.79	N.A.	37.20
20-50	722.97	N.A.	55.20
40-70	520.63	N.A.	39.70
60-80	173.85	N.A.	13.30
70-80	62.13	N.A.	4.70
80-90	21.62	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	1309.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.03
10-20	160.73
20-30	231.01
30-40	256.78
40-50	235.18
50-60	173.73
60-70	111.72
70-80	62.13
80-90	21.62
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	12.5	14.0	12.8	14.3	14.6	11.4	12.9	11.7	13.2	13.5
	3H	13.9	15.2	14.3	15.6	15.9	12.8	14.2	13.2	14.5	14.9
	4H	14.4	15.7	14.8	16.0	16.4	13.4	14.7	13.8	15.0	15.4
	6H	14.9	16.0	15.3	16.4	16.8	14.0	15.1	14.4	15.5	15.9
	8H	15.0	16.2	15.5	16.5	16.9	14.2	15.3	14.6	15.7	16.1
	12H	15.2	16.3	15.6	16.6	17.1	14.4	15.5	14.8	15.8	16.3

### UGR Viewed Endwise

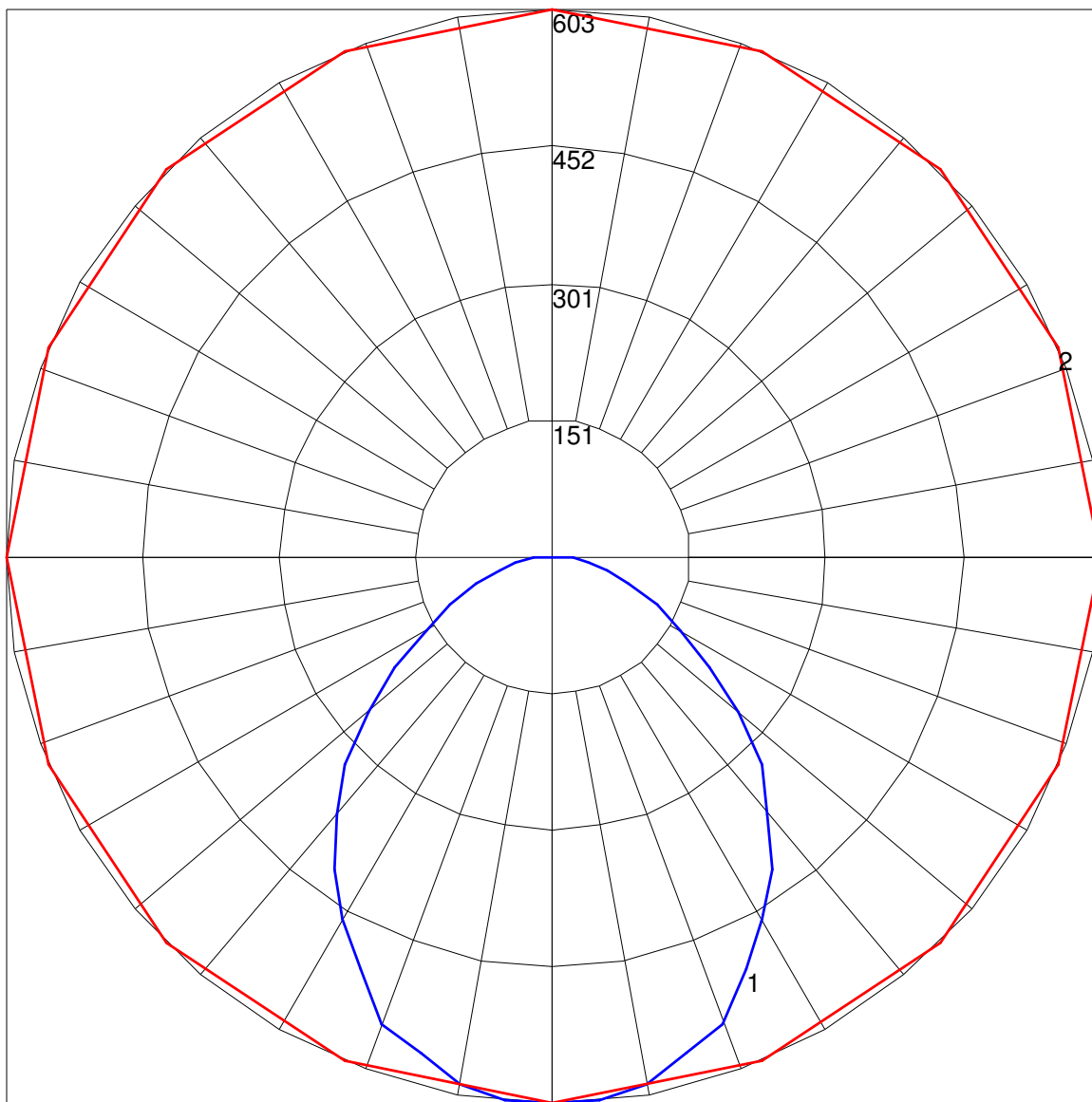
4H	2H	12.8	14.1	13.2	14.5	14.8	11.9	13.2	12.3	13.6	13.9
	3H	14.5	15.5	14.9	15.9	16.3	13.6	14.7	14.0	15.1	15.5
	4H	15.1	16.1	15.6	16.5	16.9	14.3	15.3	14.7	15.7	16.1
	6H	15.7	16.6	16.2	17.0	17.5	15.0	15.8	15.5	16.3	16.7
	8H	16.0	16.8	16.4	17.2	17.7	15.3	16.1	15.8	16.5	17.0
	12H	16.2	16.9	16.7	17.4	17.8	15.6	16.3	16.0	16.7	17.2
8H	4H	15.3	16.1	15.8	16.6	17.0	14.6	15.4	15.1	15.8	16.3
	6H	16.1	16.7	16.6	17.2	17.7	15.5	16.1	15.9	16.6	17.1
	8H	16.4	17.0	16.9	17.5	18.0	15.9	16.4	16.4	16.9	17.4
	12H	16.7	17.2	17.2	17.7	18.3	16.2	16.7	16.7	17.2	17.8
12H	4H	15.4	16.1	15.8	16.5	17.0	14.6	15.4	15.1	15.8	16.3
	6H	16.2	16.7	16.7	17.2	17.7	15.6	16.1	16.1	16.6	17.1
	8H	16.5	17.1	17.0	17.5	18.1	16.0	16.5	16.5	17.0	17.6

Maximum UGR = 18.3

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## POLAR GRAPH



Maximum Candela = 602.74 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.)