



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L65-840-SAF12125-(L61)-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] 02-13-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836

[LUMINAIRE] 1x4' LED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 50G-S14-L65-840-SAF12125-(L61)-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	1213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	1579	1498	1405
55	1266	1150	1037
65	1015	894	826
75	809	748	748
85	825	746	825

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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>	558.110	558.110	558.110	558.110	558.110
<b>5</b>	556.629	556.444	556.629	556.444	556.999
<b>10</b>	547.377	547.377	547.007	547.007	547.007
<b>15</b>	526.096	526.096	525.171	525.171	524.986
<b>20</b>	509.627	509.256	508.146	507.406	507.221
<b>25</b>	464.845	463.734	462.439	460.588	460.588
<b>30</b>	428.575	427.094	423.579	419.507	418.212
<b>35</b>	391.380	389.529	383.793	376.391	373.615
<b>40</b>	342.157	339.011	331.054	321.431	316.990
<b>45</b>	301.816	296.820	286.457	273.318	268.692
<b>50</b>	246.116	240.194	228.721	214.843	210.771
<b>55</b>	196.338	190.786	178.388	165.619	160.808
<b>60</b>	150.815	145.264	134.901	125.094	121.207
<b>65</b>	116.026	111.400	102.147	96.041	94.375
<b>70</b>	83.087	79.941	73.095	71.244	71.429
<b>75</b>	56.625	54.960	52.369	51.074	52.369
<b>80</b>	37.750	36.640	34.974	35.900	36.455
<b>85</b>	19.430	18.505	17.580	19.245	19.430
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	201.64	N.A.	16.60
0-30	415.54	N.A.	34.30
0-40	653.30	N.A.	53.90
0-60	1031.94	N.A.	85.10
0-80	1192.92	N.A.	98.30
0-90	1212.94	N.A.	100.00
10-90	1160.13	N.A.	95.60
20-40	451.67	N.A.	37.20
20-50	669.44	N.A.	55.20
40-70	482.08	N.A.	39.70
60-80	160.98	N.A.	13.30
70-80	57.53	N.A.	4.70
80-90	20.02	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	1212.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	52.81
10-20	148.83
20-30	213.90
30-40	237.77
40-50	217.77
50-60	160.86
60-70	103.45
70-80	57.53
80-90	20.02
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	12.3	13.8	12.6	14.1	14.4	11.2	12.7	11.5	13.0	13.3
	3H	13.7	15.0	14.1	15.4	15.7	12.6	14.0	13.0	14.3	14.7
	4H	14.2	15.5	14.6	15.8	16.2	13.2	14.5	13.6	14.8	15.2
	6H	14.7	15.8	15.1	16.2	16.6	13.8	14.9	14.2	15.3	15.7
	8H	14.8	16.0	15.3	16.3	16.7	14.0	15.1	14.4	15.5	15.9
	12H	15.0	16.1	15.4	16.4	16.9	14.2	15.3	14.6	15.6	16.1

### UGR Viewed Endwise

4H	2H	12.6	13.9	13.0	14.3	14.6	11.7	13.0	12.1	13.4	13.7
	3H	14.3	15.3	14.7	15.7	16.1	13.4	14.5	13.8	14.9	15.3
	4H	14.9	15.9	15.4	16.3	16.7	14.1	15.1	14.5	15.5	15.9
	6H	15.5	16.4	16.0	16.8	17.3	14.8	15.6	15.3	16.1	16.5
	8H	15.8	16.6	16.2	17.0	17.5	15.1	15.9	15.6	16.3	16.8
	12H	16.0	16.7	16.5	17.2	17.6	15.4	16.1	15.8	16.5	17.0

8H	4H	15.1	15.9	15.6	16.4	16.8	14.4	15.2	14.9	15.6	16.1
	6H	15.9	16.5	16.4	17.0	17.5	15.3	15.9	15.7	16.4	16.9
	8H	16.2	16.8	16.7	17.3	17.8	15.7	16.2	16.2	16.7	17.2
	12H	16.5	17.0	17.0	17.5	18.1	16.0	16.5	16.5	17.0	17.6

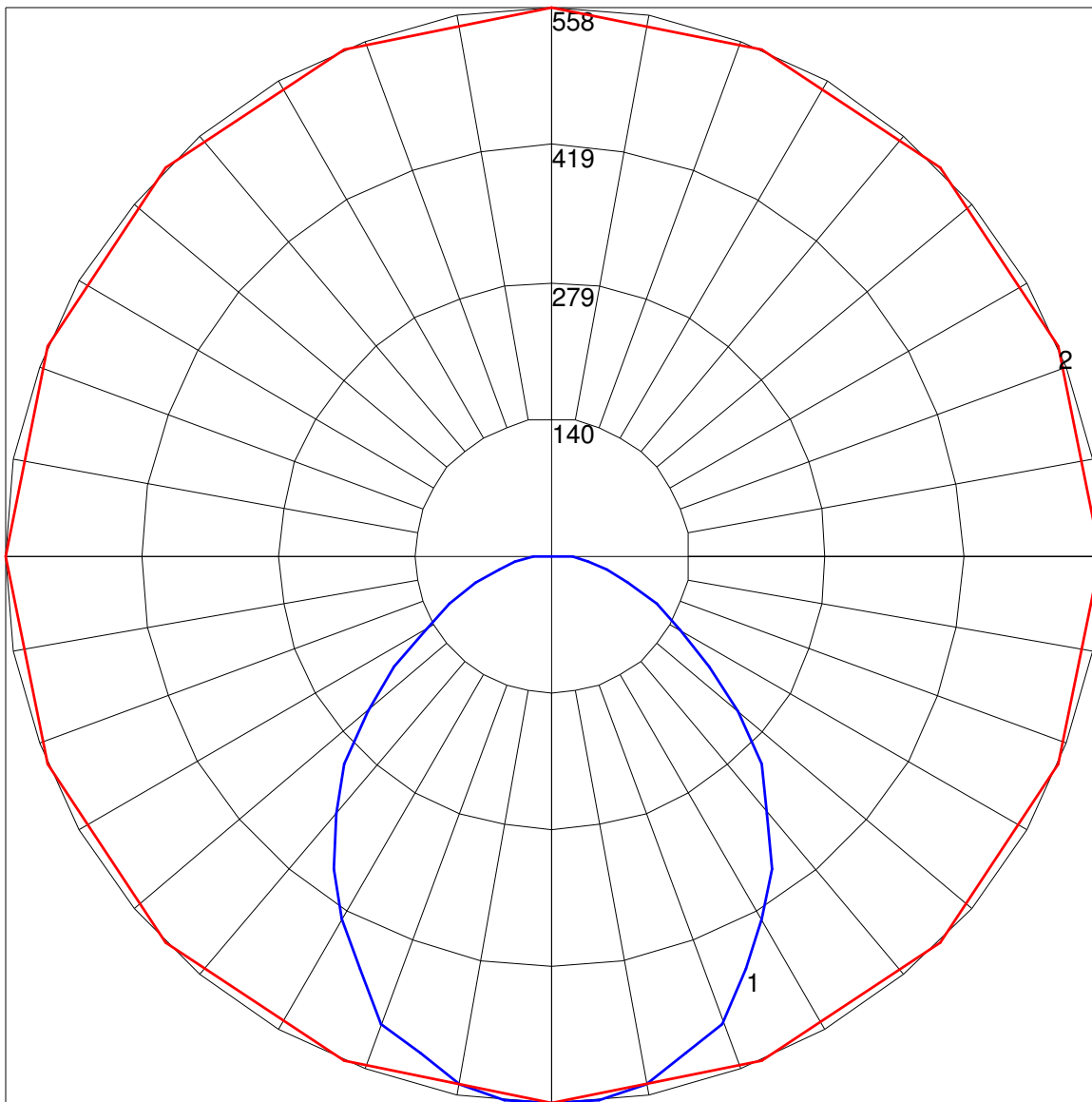
12H	4H	15.2	15.9	15.6	16.3	16.8	14.4	15.2	14.9	15.6	16.1
	6H	16.0	16.5	16.5	17.0	17.5	15.4	15.9	15.9	16.4	16.9
	8H	16.3	16.9	16.8	17.3	17.9	15.8	16.3	16.3	16.8	17.4

Maximum UGR = 18.1

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## POLAR GRAPH



Maximum Candela = 558.11 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.)