



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L65-840-SPC12187-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN FROM Photopia 2020.0.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE] 01-04-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1X4' LED TROFFER

[MORE] WITH POLYCARBONATE LENS

[LUMCAT] 50G-S14-L65-840-SPC12187-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	6759
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	55.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.39 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5862	4450	3802
55	4130	2807	2315
65	2864	1703	1425
75	1889	978	788
85	932	433	364

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	4621.870	4621.870	4621.870	4621.870	4621.870
<b>5</b>	4230.906	4284.281	4235.640	4116.766	4184.968
<b>10</b>	3681.294	3677.641	3636.943	3627.294	3595.259
<b>15</b>	3211.528	3208.765	3189.407	3228.483	3168.859
<b>20</b>	2915.899	2965.344	2979.523	2967.820	2929.573
<b>25</b>	2736.584	2744.791	2781.812	2780.899	2756.266
<b>30</b>	2591.743	2583.740	2569.261	2543.234	2484.945
<b>35</b>	2378.363	2345.860	2285.083	2224.822	2208.781
<b>40</b>	2034.573	1999.955	1903.118	1810.270	1772.144
<b>45</b>	1658.713	1651.419	1549.595	1427.056	1370.990
<b>50</b>	1320.450	1272.843	1173.771	1066.240	1044.491
<b>55</b>	983.822	952.328	881.193	800.975	759.820
<b>60</b>	741.615	714.700	634.216	589.012	570.544
<b>65</b>	533.534	515.222	459.696	425.090	407.222
<b>70</b>	354.496	353.559	324.925	280.694	281.030
<b>75</b>	243.000	243.901	213.116	197.399	185.070
<b>80</b>	145.694	154.009	140.455	127.310	127.526
<b>85</b>	62.567	77.431	68.948	67.001	64.310
<b>90</b>	27.348	28.910	26.039	24.392	20.607

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1300.85	N.A.	19.20
0-30	2574.54	N.A.	38.10
0-40	3987.47	N.A.	59.00
0-60	5970.25	N.A.	88.30
0-80	6676.44	N.A.	98.80
0-90	6759.2	N.A.	100.00
10-90	6372.56	N.A.	94.30
20-40	2686.61	N.A.	39.70
20-50	3871.05	N.A.	57.30
40-70	2453.34	N.A.	36.30
60-80	706.19	N.A.	10.40
70-80	235.64	N.A.	3.50
80-90	82.76	N.A.	1.20
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	6759.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	386.64
10-20	914.22
20-30	1273.69
30-40	1412.93
40-50	1184.43
50-60	798.35
60-70	470.56
70-80	235.64
80-90	82.76
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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42
8	66	54	46	41	65	53	46	40	52	45	40	51	44	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

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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

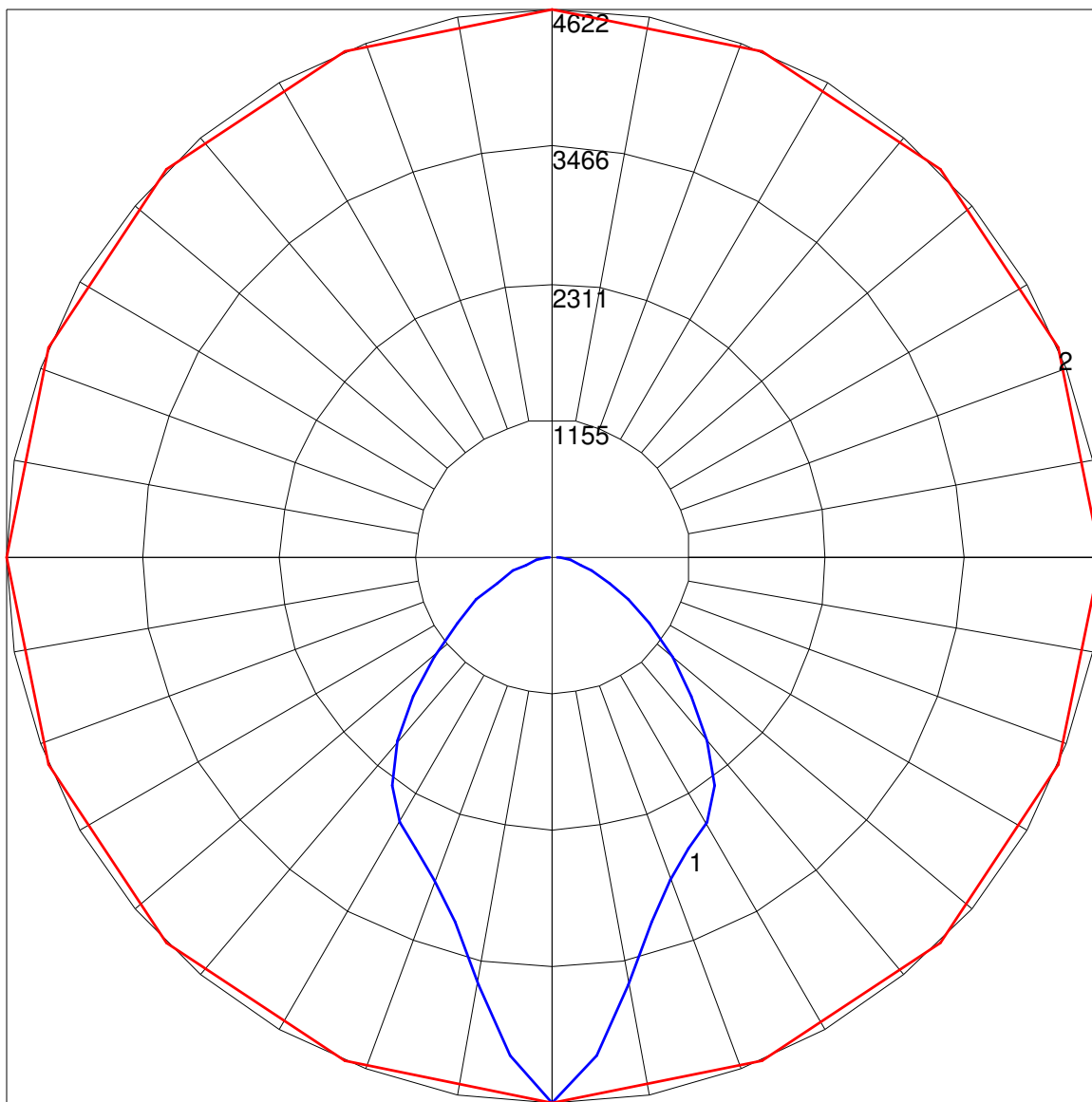
X=2H	Y=2H	14.7	16.1	15.0	16.4	16.7	14.0	15.5	14.4	15.8	16.1
	3H	15.6	16.9	16.0	17.2	17.6	15.0	16.3	15.4	16.6	17.0
	4H	15.9	17.1	16.3	17.5	17.8	15.3	16.6	15.7	16.9	17.3
	6H	16.1	17.2	16.5	17.6	17.9	15.6	16.7	16.0	17.1	17.5
	8H	16.1	17.2	16.5	17.6	18.0	15.7	16.8	16.1	17.2	17.6
	12H	16.1	17.1	16.5	17.5	17.9	15.8	16.8	16.2	17.2	17.6

UGR Viewed Endwise

4H	2H	14.9	16.1	15.3	16.5	16.9	14.3	15.5	14.7	15.9	16.3
	3H	16.0	17.0	16.4	17.4	17.8	15.5	16.5	15.9	16.9	17.3
	4H	16.4	17.3	16.9	17.7	18.2	15.9	16.8	16.4	17.3	17.7
	6H	16.7	17.5	17.2	17.9	18.4	16.3	17.1	16.8	17.5	18.0
	8H	16.8	17.5	17.2	17.9	18.4	16.4	17.2	16.9	17.6	18.1
	12H	16.8	17.4	17.3	17.9	18.4	16.5	17.2	17.0	17.7	18.1
8H	4H	16.5	17.2	17.0	17.7	18.2	16.1	16.8	16.5	17.2	17.7
	6H	16.8	17.5	17.3	17.9	18.4	16.5	17.1	17.0	17.6	18.1
	8H	16.9	17.5	17.5	18.0	18.5	16.7	17.2	17.2	17.7	18.2
	12H	17.0	17.5	17.5	18.0	18.6	16.8	17.3	17.3	17.8	18.4
12H	4H	16.5	17.2	17.0	17.6	18.1	16.0	16.7	16.5	17.2	17.7
	6H	16.9	17.4	17.4	17.9	18.4	16.5	17.1	17.0	17.5	18.1
	8H	17.0	17.5	17.5	18.0	18.5	16.7	17.2	17.2	17.7	18.3

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 4621.87 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.)