



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L45-935-SA12125-DRV-UNV\_.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] 02-17-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 1x4'LED TROFFER  
 [MORE] WITH ACRYLIC LENS  
 [LUMCAT] 50G-S14-L45-935-SA12125-DRV-UNV  
 [LAMPCAT] HLM 90 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	3542
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	33.7
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	4610	4376	4104
55	3697	3359	3028
65	2965	2611	2412
75	2363	2186	2186
85	2408	2179	2408

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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>	1629.859	1629.859	1629.859	1629.859	1629.859
<b>5</b>	1625.535	1624.995	1625.535	1624.995	1626.616
<b>10</b>	1598.515	1598.515	1597.434	1597.434	1597.434
<b>15</b>	1536.369	1536.369	1533.667	1533.667	1533.126
<b>20</b>	1488.273	1487.192	1483.950	1481.788	1481.248
<b>25</b>	1357.495	1354.253	1350.470	1345.066	1345.066
<b>30</b>	1251.576	1247.253	1236.985	1225.096	1221.313
<b>35</b>	1142.955	1137.551	1120.798	1099.182	1091.076
<b>40</b>	999.207	990.020	966.783	938.682	925.712
<b>45</b>	881.399	866.808	836.546	798.177	784.667
<b>50</b>	718.737	701.444	667.939	627.409	615.520
<b>55</b>	573.369	557.157	520.950	483.662	469.611
<b>60</b>	440.429	424.217	393.955	365.313	353.965
<b>65</b>	338.833	325.323	298.303	280.470	275.606
<b>70</b>	242.641	233.455	213.460	208.056	208.596
<b>75</b>	165.364	160.500	152.934	149.152	152.934
<b>80</b>	110.242	107.000	102.136	104.838	106.460
<b>85</b>	56.742	54.040	51.338	56.202	56.742
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	588.85	N.A.	16.60
0-30	1213.5	N.A.	34.30
0-40	1907.86	N.A.	53.90
0-60	3013.59	N.A.	85.10
0-80	3483.71	N.A.	98.30
0-90	3542.18	N.A.	100.00
10-90	3387.95	N.A.	95.60
20-40	1319.01	N.A.	37.20
20-50	1954.97	N.A.	55.20
40-70	1407.84	N.A.	39.70
60-80	470.12	N.A.	13.30
70-80	168.01	N.A.	4.70
80-90	58.46	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	3542.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	154.22
10-20	434.63
20-30	624.66
30-40	694.36
40-50	635.96
50-60	469.78
60-70	302.11
70-80	168.01
80-90	58.46
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	74
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	59	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	16.0	17.5	16.3	17.8	18.1	14.9	16.4	15.2	16.7	17.0
	3H	17.4	18.7	17.8	19.1	19.4	16.3	17.7	16.7	18.0	18.4
	4H	17.9	19.2	18.3	19.5	19.9	16.9	18.2	17.3	18.5	18.9
	6H	18.4	19.5	18.8	19.9	20.3	17.5	18.6	17.9	19.0	19.4
	8H	18.5	19.7	19.0	20.0	20.5	17.7	18.8	18.1	19.2	19.6
	12H	18.7	19.8	19.1	20.1	20.6	17.9	19.0	18.3	19.3	19.8

### UGR Viewed Endwise

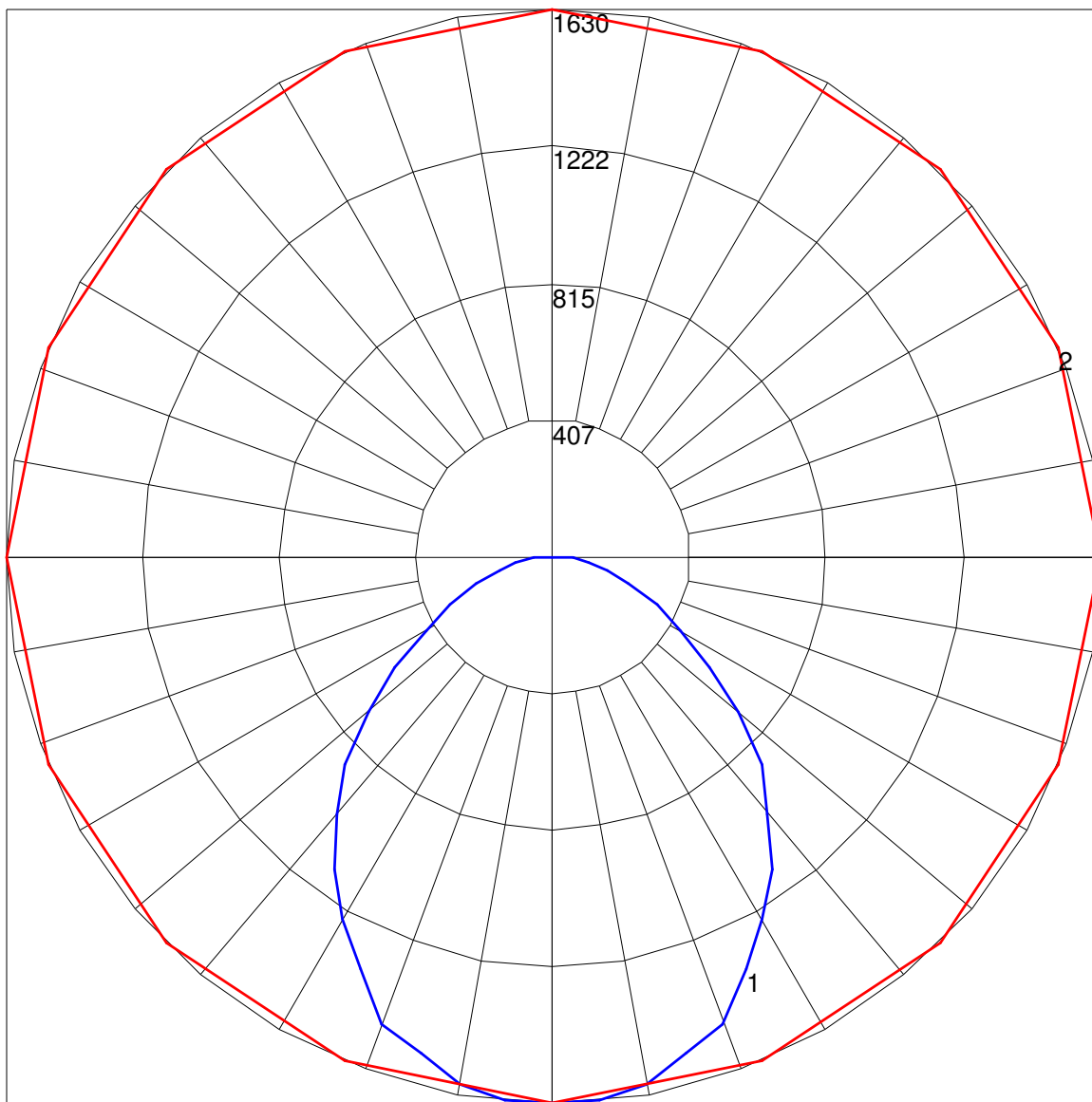
4H	2H	16.3	17.6	16.7	18.0	18.3	15.4	16.7	15.8	17.1	17.4
	3H	18.0	19.0	18.4	19.4	19.8	17.1	18.2	17.5	18.6	19.0
	4H	18.6	19.6	19.1	20.0	20.5	17.8	18.8	18.2	19.2	19.6
	6H	19.3	20.1	19.7	20.5	21.0	18.5	19.4	19.0	19.8	20.3
	8H	19.5	20.3	19.9	20.7	21.2	18.8	19.6	19.3	20.0	20.5
	12H	19.7	20.4	20.2	20.9	21.3	19.1	19.8	19.5	20.2	20.7

8H	4H	18.8	19.6	19.3	20.1	20.5	18.1	18.9	18.6	19.3	19.8
	6H	19.6	20.2	20.1	20.7	21.2	19.0	19.6	19.4	20.1	20.6
	8H	19.9	20.5	20.4	21.0	21.5	19.4	19.9	19.9	20.4	20.9
	12H	20.2	20.7	20.7	21.2	21.8	19.7	20.2	20.2	20.7	21.3

12H	4H	18.9	19.6	19.3	20.1	20.5	18.1	18.9	18.6	19.3	19.8
	6H	19.7	20.2	20.2	20.7	21.2	19.1	19.6	19.6	20.1	20.6
	8H	20.0	20.6	20.5	21.0	21.6	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 1629.859 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.)