



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-950-SA12125-(L38)-DRV-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18125.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 02-17-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMINAIRE] 2x4' LED TROFFER  
 [MORE] WITH ACRYLIC LENS  
 [LUMCAT] 50G-S24-L59-950-SA12125-(L38)-DRV-UNV  
 [LAMPCAT] HLM 90 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	3451
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	30.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1872	1846	1820
55	1545	1493	1447
65	1242	1168	1152
75	1006	964	1017
85	1005	1005	1186

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 50G-S24-L59-950-SA12125-(L38)-DRV-UNV\_.IES****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>	1554.041	1554.041	1554.041	1554.041	1554.041
<b>5</b>	1538.744	1537.741	1536.487	1535.734	1535.734
<b>10</b>	1510.908	1509.153	1510.406	1510.908	1510.908
<b>15</b>	1449.218	1449.218	1449.218	1450.973	1451.725
<b>20</b>	1395.302	1395.302	1397.057	1399.565	1397.057
<b>25</b>	1277.689	1276.435	1280.197	1282.454	1281.952
<b>30</b>	1177.129	1175.875	1178.383	1178.383	1180.891
<b>35</b>	1059.015	1058.513	1056.507	1056.006	1060.770
<b>40</b>	937.139	934.882	929.867	925.854	929.365
<b>45</b>	822.034	819.025	810.499	803.226	799.214
<b>50</b>	676.084	670.066	663.295	652.010	645.239
<b>55</b>	550.196	540.918	531.890	518.097	515.589
<b>60</b>	425.813	418.540	407.005	396.222	394.968
<b>65</b>	326.005	319.986	306.445	302.432	302.432
<b>70</b>	237.482	233.971	222.436	226.699	227.200
<b>75</b>	161.749	159.241	154.978	160.495	163.504
<b>80</b>	109.086	107.331	107.331	112.096	115.606
<b>85</b>	54.418	52.662	54.418	61.690	64.198
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	556.19	N.A.	16.10
0-30	1147.95	N.A.	33.30
0-40	1808.96	N.A.	52.40
0-60	2905.31	N.A.	84.20
0-80	3390.17	N.A.	98.20
0-90	3451.1	N.A.	100.00
10-90	3305.14	N.A.	95.80
20-40	1252.77	N.A.	36.30
20-50	1872.79	N.A.	54.30
40-70	1407.73	N.A.	40.80
60-80	484.86	N.A.	14.00
70-80	173.48	N.A.	5.00
80-90	60.93	N.A.	1.80
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	3451.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.96
10-20	410.24
20-30	591.76
30-40	661.01
40-50	620.02
50-60	476.32
60-70	311.38
70-80	173.48
80-90	60.93
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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	54
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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## UGR TABLE - CORRECTED

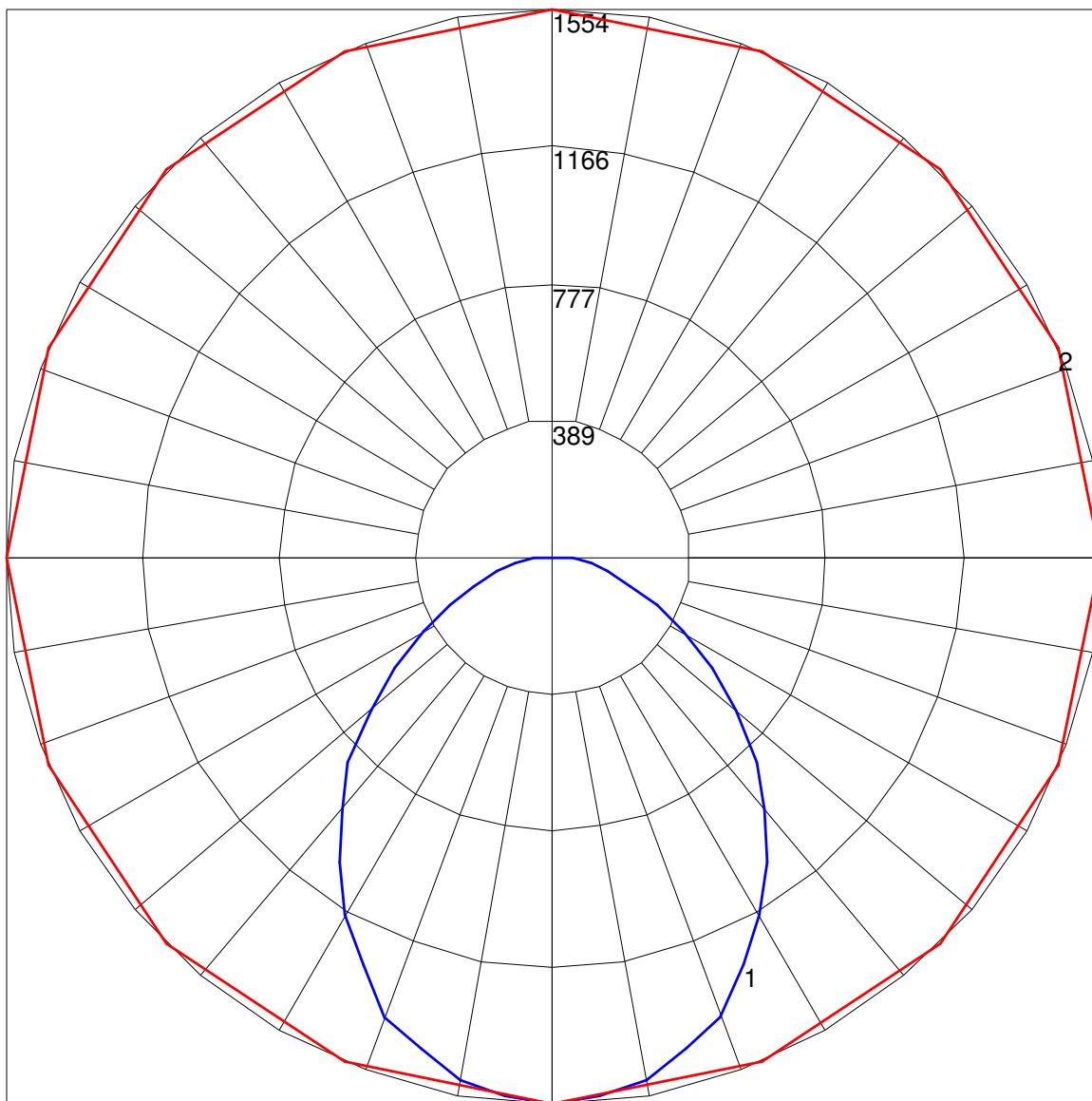
### Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.0	14.5	13.3	14.8	15.1	12.6	14.1	13.0	14.4	14.8
	3H	14.4	15.8	14.8	16.1	16.5	14.0	15.4	14.4	15.8	16.1
	4H	14.9	16.2	15.3	16.6	17.0	14.6	15.9	15.0	16.3	16.7
	6H	15.4	16.6	15.8	17.0	17.4	15.2	16.4	15.6	16.7	17.1
	8H	15.6	16.7	16.0	17.1	17.5	15.4	16.6	15.8	16.9	17.3
	12H	15.7	16.8	16.1	17.2	17.6	15.6	16.7	16.0	17.1	17.5
4H	2H	13.4	14.7	13.8	15.0	15.4	13.1	14.4	13.5	14.7	15.1
	3H	15.0	16.1	15.5	16.5	16.9	14.8	15.9	15.2	16.3	16.7
	4H	15.7	16.7	16.2	17.1	17.5	15.5	16.5	15.9	16.9	17.3
	6H	16.3	17.2	16.8	17.6	18.1	16.2	17.0	16.7	17.5	17.9
	8H	16.6	17.4	17.0	17.8	18.3	16.5	17.3	17.0	17.7	18.2
	12H	16.8	17.5	17.3	18.0	18.4	16.8	17.5	17.3	18.0	18.4
8H	4H	16.0	16.8	16.4	17.2	17.7	15.8	16.6	16.2	17.0	17.5
	6H	16.7	17.4	17.2	17.9	18.3	16.6	17.3	17.1	17.8	18.2
	8H	17.0	17.6	17.6	18.2	18.6	17.0	17.6	17.5	18.1	18.6
	12H	17.3	17.9	17.8	18.4	18.9	17.4	17.9	17.9	18.4	19.0
12H	4H	16.0	16.7	16.5	17.2	17.7	15.8	16.5	16.3	17.0	17.5
	6H	16.8	17.4	17.3	17.9	18.4	16.7	17.3	17.2	17.8	18.3
	8H	17.2	17.7	17.7	18.2	18.8	17.1	17.7	17.7	18.2	18.7

Maximum UGR = 19.0

POLAR GRAPH



Maximum Candela = 1554.041 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.)