



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L90-835-FAF12125-EM10W-(L60)-DIM-UNV\_(EMER MODE).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] 07-28-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2x4' LED TROFFER

[MORE] FROSTED ACRYLIC LENS

[LUMCAT] 50G-S24-L90-835-FAF12125-(L60)-EM10W-DIM-UNV

[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	1290
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	10
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	700	690	680
55	577	558	541
65	464	436	431
75	376	360	380
85	376	376	443

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 50G-S24-L90-835-FAF12125-EM10W-(L60)-DIM-UNV\_(EMER MODE).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>	580.884	580.884	580.884	580.884	580.884
<b>5</b>	575.167	574.792	574.323	574.042	574.042
<b>10</b>	564.762	564.106	564.574	564.762	564.762
<b>15</b>	541.703	541.703	541.703	542.359	542.640
<b>20</b>	521.549	521.549	522.205	523.143	522.205
<b>25</b>	477.587	477.118	478.524	479.368	479.180
<b>30</b>	439.999	439.530	440.467	440.467	441.405
<b>35</b>	395.849	395.661	394.911	394.724	396.505
<b>40</b>	350.293	349.449	347.575	346.075	347.387
<b>45</b>	307.268	306.143	302.956	300.238	298.738
<b>50</b>	252.713	250.464	247.933	243.715	241.184
<b>55</b>	205.658	202.189	198.815	193.659	192.722
<b>60</b>	159.164	156.446	152.134	148.104	147.635
<b>65</b>	121.857	119.608	114.546	113.046	113.046
<b>70</b>	88.768	87.456	83.144	84.738	84.925
<b>75</b>	60.460	59.523	57.929	59.991	61.116
<b>80</b>	40.775	40.119	40.119	41.900	43.212
<b>85</b>	20.341	19.685	20.341	23.059	23.997
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	207.90	N.A.	16.10
0-30	429.09	N.A.	33.30
0-40	676.17	N.A.	52.40
0-60	1085.97	N.A.	84.20
0-80	1267.21	N.A.	98.20
0-90	1289.99	N.A.	100.00
10-90	1235.43	N.A.	95.80
20-40	468.27	N.A.	36.30
20-50	700.03	N.A.	54.30
40-70	526.19	N.A.	40.80
60-80	181.23	N.A.	14.00
70-80	64.84	N.A.	5.00
80-90	22.78	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	1289.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	54.56
10-20	153.34
20-30	221.19
30-40	247.08
40-50	231.76
50-60	178.05
60-70	116.39
70-80	64.84
80-90	22.78
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

X=2H	Y=2H	9.6	11.1	9.9	11.4	11.7	9.2	10.7	9.6	11.0	11.4
	3H	11.0	12.4	11.4	12.7	13.1	10.6	12.0	11.0	12.4	12.7
	4H	11.5	12.8	11.9	13.2	13.6	11.2	12.5	11.6	12.9	13.3
	6H	12.0	13.2	12.4	13.6	14.0	11.8	13.0	12.2	13.3	13.7
	8H	12.2	13.3	12.6	13.7	14.1	12.0	13.2	12.4	13.5	13.9
	12H	12.3	13.4	12.7	13.8	14.2	12.2	13.3	12.6	13.7	14.1

### UGR Viewed Endwise

4H	2H	10.0	11.3	10.4	11.6	12.0	9.7	11.0	10.1	11.3	11.7
	3H	11.6	12.7	12.1	13.1	13.5	11.4	12.5	11.8	12.9	13.3
	4H	12.3	13.3	12.7	13.7	14.1	12.1	13.1	12.5	13.5	13.9
	6H	12.9	13.8	13.4	14.2	14.7	12.8	13.6	13.3	14.1	14.5
	8H	13.2	14.0	13.6	14.4	14.9	13.1	13.9	13.6	14.3	14.8
	12H	13.4	14.1	13.9	14.6	15.0	13.4	14.1	13.9	14.6	15.0

8H	4H	12.6	13.4	13.0	13.8	14.3	12.4	13.2	12.8	13.6	14.1
	6H	13.3	14.0	13.8	14.5	14.9	13.2	13.9	13.7	14.4	14.8
	8H	13.6	14.2	14.2	14.8	15.2	13.6	14.2	14.1	14.7	15.2
	12H	13.9	14.5	14.4	15.0	15.5	14.0	14.5	14.5	15.0	15.6

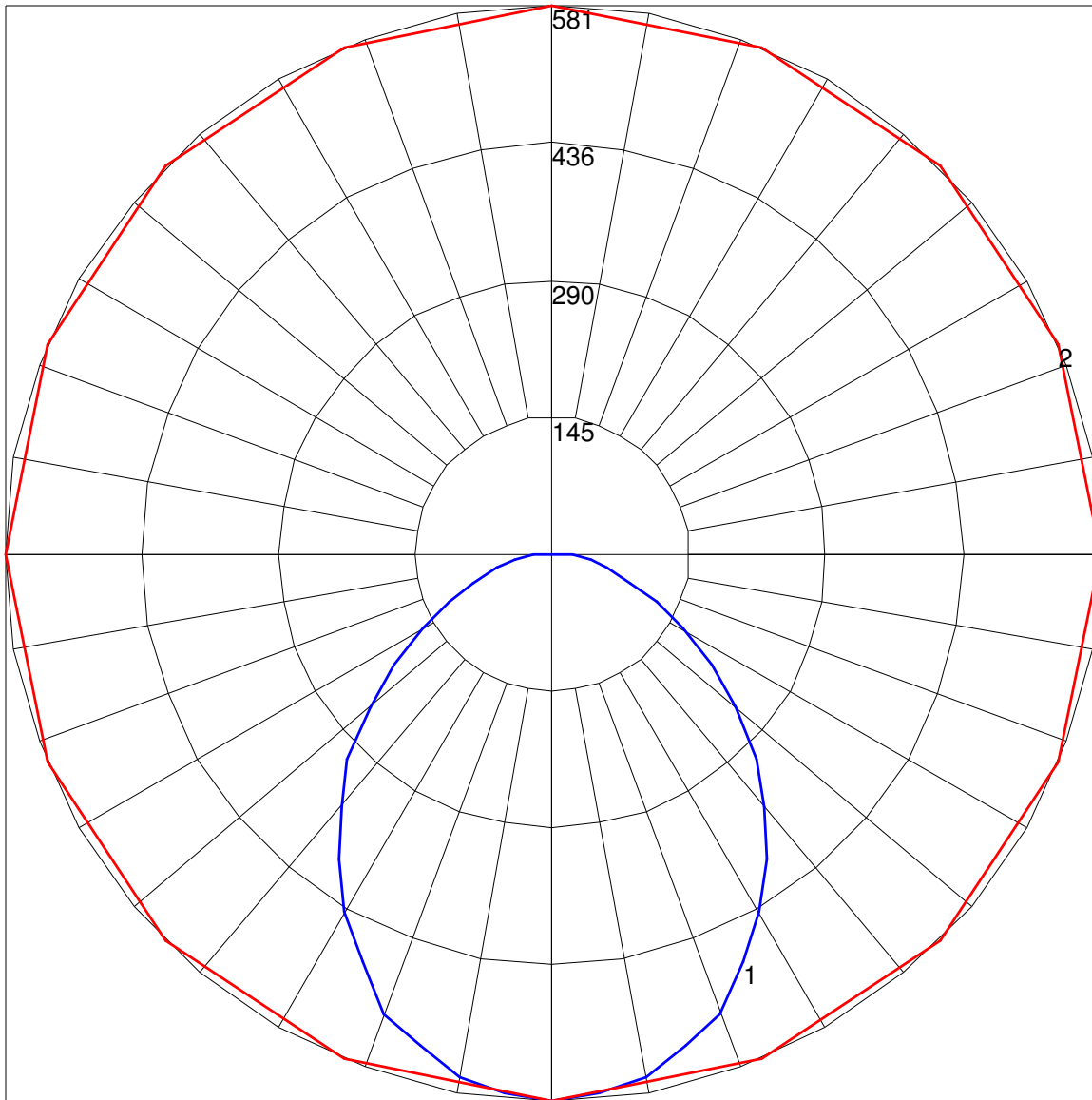
12H	4H	12.6	13.3	13.1	13.8	14.3	12.4	13.1	12.9	13.6	14.1
	6H	13.4	14.0	13.9	14.5	15.0	13.3	13.9	13.8	14.4	14.9
	8H	13.8	14.3	14.3	14.8	15.4	13.7	14.3	14.3	14.8	15.3

Maximum UGR = 15.6

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## POLAR GRAPH



Maximum Candela = 580.884 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.)