



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-4-L34-840-SWF-AF125-EM10W- (L18)-DIM-UNV\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 17249.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 01-18-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO. 64836  
 [LUMINAIRE] 4' LED TROFFER  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] LL6G-4-L34-840-SWF-AF125-EM10W-(L18)-DIM-UNV(EMER MODE)  
 [LAMPCAT] HLM 80 CRI, 3500K CCT  
 [ \_SEARCH\_SOURCETYPE]LED  
 [ \_SEARCH\_APPLICATION]INDOOR,OFFICE,CLASSROOM,ARCHITECTURAL,DIRECT,LINEAR  
 [ \_SEARCH\_MOUNTING]RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3154	2838	2573
55	2654	2344	2101
65	2239	1975	1771
75	1813	1578	1431
85	1514	1310	1223

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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>	535.961	535.961	535.961	535.961	535.961
<b>5</b>	532.842	532.530	531.594	530.970	530.970
<b>10</b>	518.803	517.243	514.436	512.564	511.004
<b>15</b>	496.341	494.158	488.854	485.111	482.615
<b>20</b>	474.192	470.448	461.401	452.354	448.298
<b>25</b>	430.204	425.525	414.606	402.751	398.383
<b>30</b>	395.264	388.712	373.114	358.140	352.212
<b>35</b>	355.644	347.533	330.998	315.088	307.601
<b>40</b>	310.408	302.297	285.139	267.669	261.741
<b>45</b>	274.220	265.173	246.767	229.921	223.681
<b>50</b>	228.361	220.562	203.403	188.741	182.813
<b>55</b>	187.181	180.318	165.343	153.176	148.185
<b>60</b>	148.809	142.881	131.339	121.044	117.612
<b>65</b>	116.364	112.621	102.638	94.526	92.031
<b>70</b>	85.479	82.048	74.560	69.569	67.385
<b>75</b>	57.714	55.218	50.227	47.419	45.547
<b>80</b>	34.628	33.381	30.573	28.389	27.765
<b>85</b>	16.222	15.286	14.039	13.727	13.103
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : LL6G-4-L34-840-SWF-AF125-EM10W- (L18)-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	188.13	N.A.	17.10
0-30	379.65	N.A.	34.50
0-40	586.31	N.A.	53.30
0-60	926.15	N.A.	84.20
0-80	1083.87	N.A.	98.50
0-90	1100.13	N.A.	100.00
10-90	1049.93	N.A.	95.40
20-40	398.18	N.A.	36.20
20-50	588.26	N.A.	53.50
40-70	442.48	N.A.	40.20
60-80	157.72	N.A.	14.30
70-80	55.08	N.A.	5.00
80-90	16.26	N.A.	1.50
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	1100.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.20
10-20	137.92
20-30	191.53
30-40	206.65
40-50	190.08
50-60	149.77
60-70	102.64
70-80	55.08
80-90	16.26
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	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	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	15.0	16.5	15.4	16.9	17.2	13.8	15.3	14.1	15.6	15.9
	3H	16.6	18.0	16.9	18.3	18.6	15.3	16.7	15.7	17.0	17.3
	4H	17.1	18.4	17.5	18.8	19.2	15.8	17.1	16.2	17.5	17.8
	6H	17.6	18.7	18.0	19.1	19.5	16.2	17.4	16.6	17.8	18.2
	8H	17.7	18.8	18.1	19.2	19.6	16.4	17.5	16.8	17.9	18.3
	12H	17.8	18.9	18.2	19.3	19.7	16.4	17.5	16.9	17.9	18.4

### UGR Viewed Endwise

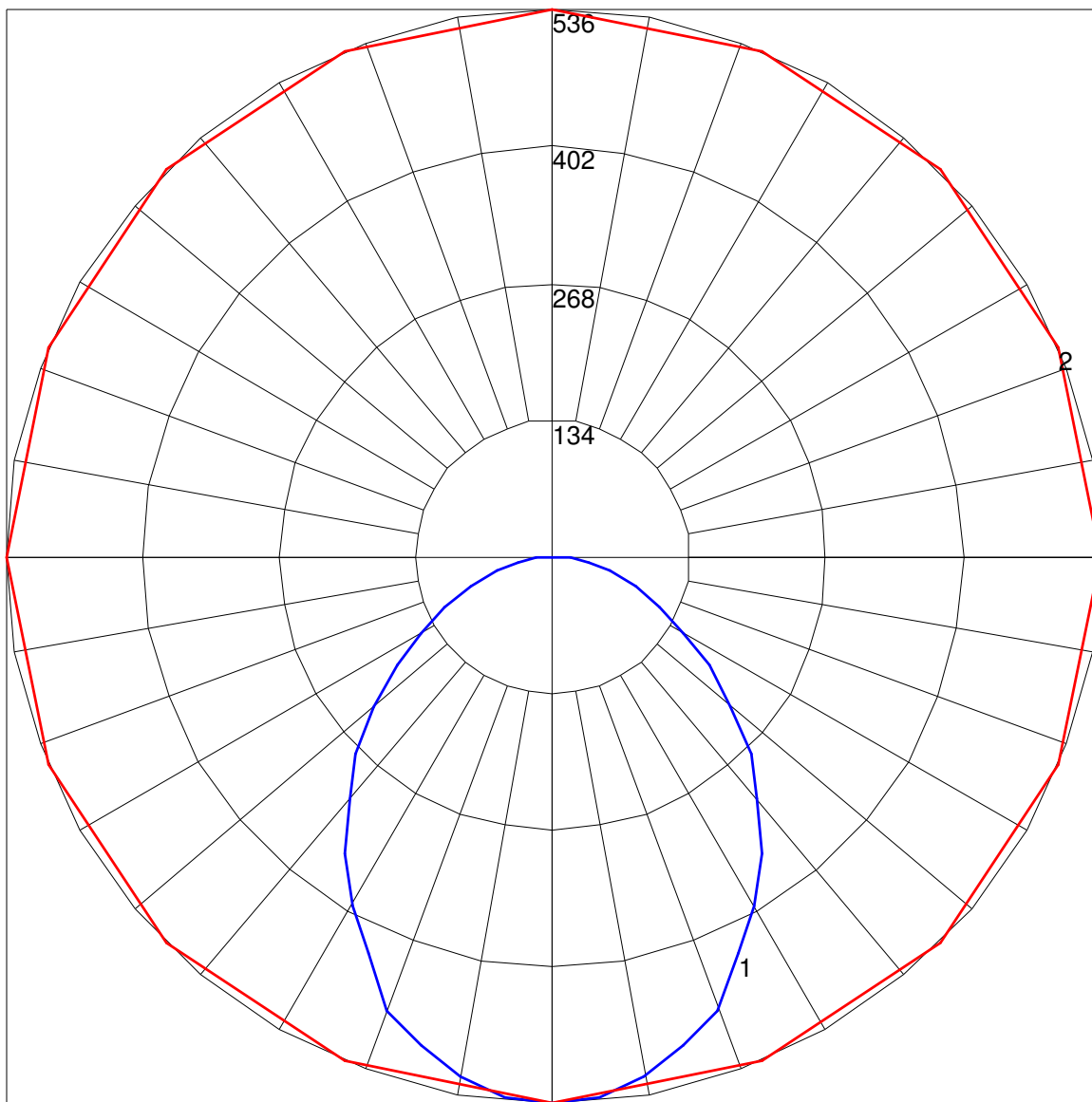
4H	2H	15.4	16.7	15.8	17.1	17.4	14.4	15.7	14.8	16.1	16.5
	3H	17.2	18.3	17.6	18.7	19.1	16.1	17.2	16.5	17.6	18.0
	4H	17.9	18.9	18.3	19.3	19.7	16.8	17.7	17.2	18.2	18.6
	6H	18.4	19.3	18.9	19.7	20.2	17.3	18.1	17.7	18.6	19.0
	8H	18.6	19.4	19.1	19.9	20.3	17.5	18.3	17.9	18.7	19.2
	12H	18.8	19.5	19.3	20.0	20.5	17.6	18.3	18.1	18.8	19.3
8H	4H	18.1	18.9	18.6	19.3	19.8	17.1	17.9	17.5	18.3	18.8
	6H	18.7	19.4	19.2	19.9	20.4	17.7	18.4	18.2	18.9	19.3
	8H	19.0	19.6	19.5	20.1	20.6	18.0	18.6	18.5	19.1	19.6
	12H	19.3	19.8	19.8	20.3	20.8	18.2	18.7	18.7	19.2	19.8
12H	4H	18.1	18.8	18.6	19.3	19.8	17.1	17.8	17.6	18.3	18.8
	6H	18.8	19.4	19.3	19.8	20.4	17.8	18.4	18.3	18.8	19.4
	8H	19.1	19.6	19.6	20.1	20.7	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 20.8

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## POLAR GRAPH



Maximum Candela = 535.961 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.)