



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-L130-840-FAF12125-(L94)-EM-BSL10LST-DIM-UNV\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 18637.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 06-24-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 4' SURFACE MOUNT LUMINAIRE  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] 12-4-L130-840-FAF12125-(L94)-EM-BSL10LST-DIM-UNV(EMER MODE)  
 [LAMPCAT] HLM 80 CRI, 4000K CCT  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] INDOOR, EDUCATION, OFFICE  
 [ \_SEARCH\_MOUNTING] SURFACE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.22
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	763	745	737
55	637	613	602
65	527	504	500
75	447	438	465
85	465	471	547

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 12-4-L130-840-FAF12125-(L94)-EM-BSL10LST-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>	658.027	658.027	658.027	658.027	658.027
<b>5</b>	642.470	642.470	641.615	641.273	641.615
<b>10</b>	632.212	631.357	631.015	631.357	631.015
<b>15</b>	601.439	600.584	599.900	599.900	599.900
<b>20</b>	585.882	584.001	584.001	583.488	582.462
<b>25</b>	536.816	536.474	534.935	534.252	534.935
<b>30</b>	488.947	488.263	486.383	485.186	485.528
<b>35</b>	441.249	439.710	436.975	435.778	435.778
<b>40</b>	389.106	386.542	382.781	379.361	379.361
<b>45</b>	334.399	331.834	326.876	323.115	323.115
<b>50</b>	277.127	274.563	269.605	265.844	265.844
<b>55</b>	226.694	222.932	217.975	213.701	214.214
<b>60</b>	179.167	175.405	171.302	168.567	168.909
<b>65</b>	138.136	134.717	132.152	130.956	130.956
<b>70</b>	104.457	101.721	99.499	101.038	102.576
<b>75</b>	71.803	70.265	70.265	72.487	74.710
<b>80</b>	47.869	47.869	47.869	50.946	53.169
<b>85</b>	25.131	25.131	25.473	28.892	29.576
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 12-4-L130-840-FAF12125-(L94)-EM-BSL10LST-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	231.74	N.A.	16.10
0-30	478.48	N.A.	33.20
0-40	751.60	N.A.	52.20
0-60	1200.82	N.A.	83.40
0-80	1412.01	N.A.	98.10
0-90	1439.98	N.A.	100.00
10-90	1378.9	N.A.	95.80
20-40	519.86	N.A.	36.10
20-50	772.32	N.A.	53.60
40-70	582.85	N.A.	40.50
60-80	211.20	N.A.	14.70
70-80	77.56	N.A.	5.40
80-90	27.97	N.A.	1.90
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	1439.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.09
10-20	170.65
20-30	246.75
30-40	273.11
40-50	252.46
50-60	196.76
60-70	133.63
70-80	77.56
80-90	27.97
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-L130-840-FAF12125-(L94)-EM-BSL10LST-DIM-UNV\_(EMER MODE).IES

## 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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	73	68	64	62
4	85	74	65	59	83	72	64	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-L130-840-FAF12125-(L94)-EM-BSL10LST-DIM-UNV\_(EMER MODE).IES

## 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	9.9	11.5	10.3	11.8	12.1	9.6	11.2	10.0	11.5	11.8
	3H	11.5	12.9	11.9	13.2	13.6	11.2	12.6	11.6	12.9	13.3
	4H	12.0	13.4	12.4	13.7	14.1	11.9	13.2	12.3	13.5	13.9
	6H	12.5	13.8	13.0	14.1	14.5	12.5	13.7	12.9	14.1	14.5
	8H	12.8	13.9	13.2	14.3	14.7	12.8	13.9	13.2	14.3	14.7
	12H	12.9	14.0	13.3	14.4	14.8	13.0	14.1	13.4	14.5	14.9

### UGR Viewed Endwise

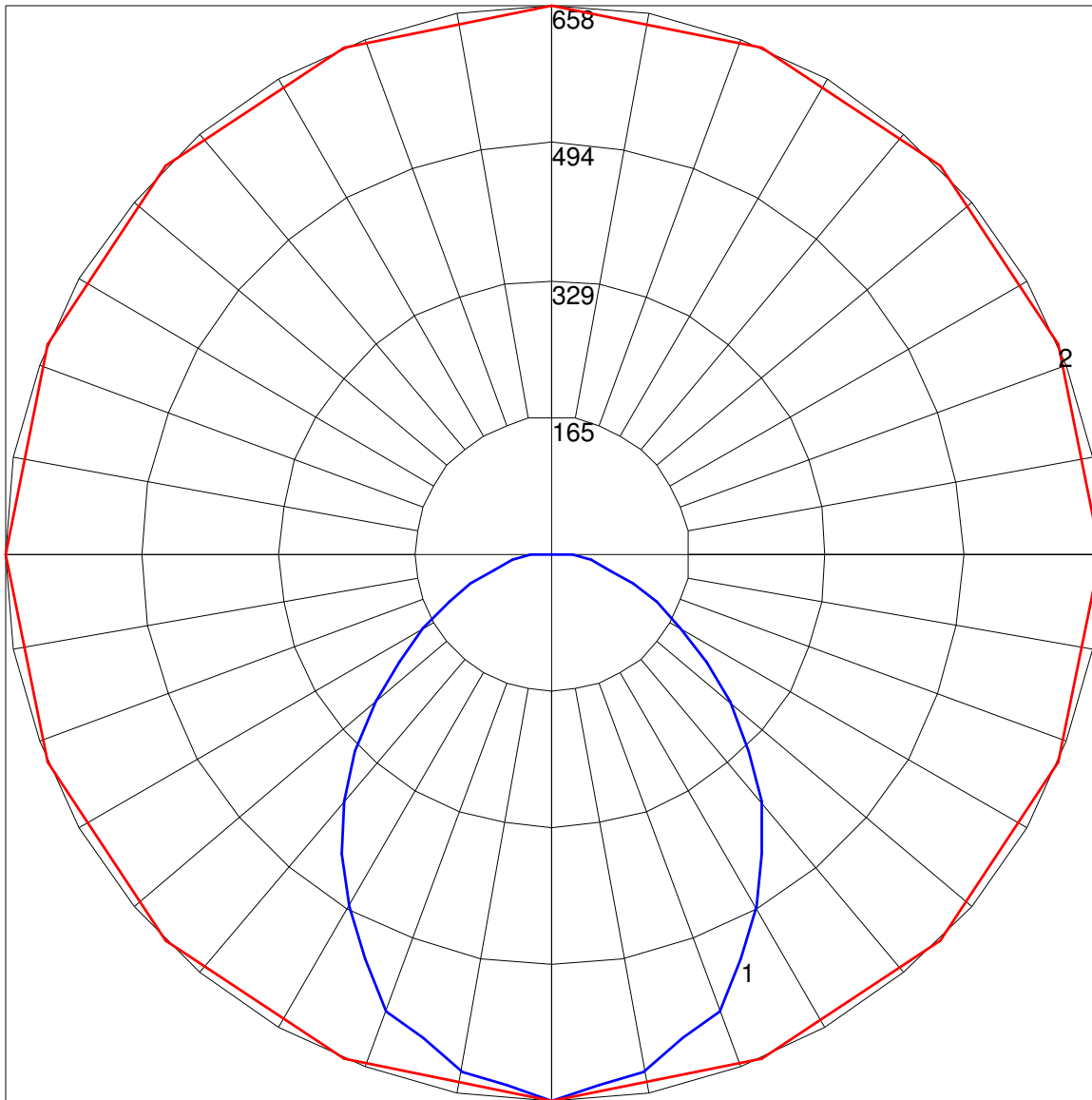
4H	2H	10.4	11.7	10.8	12.1	12.4	10.1	11.5	10.5	11.8	12.2
	3H	12.2	13.3	12.6	13.7	14.1	12.0	13.1	12.4	13.5	13.9
	4H	12.9	13.9	13.3	14.3	14.7	12.8	13.8	13.2	14.2	14.6
	6H	13.5	14.4	14.0	14.8	15.3	13.5	14.4	14.0	14.9	15.3
	8H	13.8	14.6	14.3	15.1	15.5	13.9	14.7	14.3	15.1	15.6
	12H	14.0	14.8	14.5	15.2	15.7	14.2	14.9	14.7	15.4	15.9
8H	4H	13.2	14.0	13.6	14.4	14.9	13.1	13.9	13.5	14.3	14.8
	6H	14.0	14.6	14.5	15.1	15.6	14.0	14.7	14.5	15.2	15.6
	8H	14.3	14.9	14.9	15.4	15.9	14.4	15.0	15.0	15.6	16.0
	12H	14.7	15.2	15.2	15.7	16.3	14.9	15.4	15.4	15.9	16.5
12H	4H	13.2	13.9	13.7	14.4	14.9	13.1	13.8	13.6	14.3	14.8
	6H	14.1	14.7	14.6	15.1	15.7	14.1	14.7	14.6	15.1	15.7
	8H	14.5	15.0	15.0	15.5	16.1	14.6	15.1	15.1	15.6	16.2

Maximum UGR = 16.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-L130-840-FAF12125-(L94)-EM-BSL10LST-DIM-UNV\_(EMER MODE).IES

## POLAR GRAPH



Maximum Candela = 658.027 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.)