



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CL-4-L94-840-FAF12125-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 18716.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 1-SEP-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO. 64836  
 [LUMINAIRE] 4' CORNER MOUNT LUMINAIRE  
 [MORE] WITH ACRYLIC LENS  
 [LUMCAT] CL-4-L94/840-FAF12125-DIM-UNV  
 [LAMPCAT] HLM 80 CRI, 4000K CCT  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] INDOOR, COMMERCIAL, EDUCATIONAL, OFFICE  
 [SEARCH\_MOUNTING] SURFACE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9522
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	80.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.72
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.66
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.48 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.48 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19305	15904	7308
55	18708	15084	6154
65	18243	14077	5234
75	16321	12116	4398
85	14803	10364	3044

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	1856.407	1856.407	1856.407	1856.407	1856.407	1856.407	1856.407	1856.407	1856.407
<b>5</b>	2301.618	2247.498	2143.344	1969.752	1815.562	1733.872	1610.316	1519.436	1487.781
<b>10</b>	2729.470	2629.400	2397.604	2074.928	1756.337	1519.436	1306.020	1174.295	1124.260
<b>15</b>	3212.462	3079.716	2738.660	2260.773	1778.802	1419.365	1146.725	1000.704	946.584
<b>20</b>	3580.068	3379.927	2893.871	2193.379	1547.006	1096.689	818.943	672.922	627.993
<b>25</b>	3926.230	3731.195	3148.132	2319.998	1541.900	1009.894	714.788	572.852	532.007
<b>30</b>	4194.786	3944.610	3289.047	2297.534	1387.710	818.943	550.387	418.662	368.626
<b>35</b>	4331.617	4085.525	3357.462	2275.069	1291.724	718.873	459.507	313.486	259.366
<b>40</b>	4454.152	4190.701	3394.223	2188.273	1132.429	555.493	313.486	159.296	95.986
<b>45</b>	4585.877	4294.856	3394.223	2060.632	978.239	446.232	196.056	50.035	31.655
<b>50</b>	4522.567	4217.251	3294.153	1928.907	846.513	355.352	77.606	36.761	0.000
<b>55</b>	4376.546	4067.145	3107.287	1737.957	700.492	255.282	31.655	0.000	0.000
<b>60</b>	4185.596	3857.814	2897.956	1565.386	587.147	150.106	0.000	0.000	0.000
<b>65</b>	4072.251	3726.089	2707.005	1382.605	472.781	45.951	0.000	0.000	0.000
<b>70</b>	3789.399	3444.258	2438.449	1191.654	387.007	0.000	0.000	0.000	0.000
<b>75</b>	3357.462	3025.596	2093.308	991.513	281.831	0.000	0.000	0.000	0.000
<b>80</b>	3043.977	2711.090	1810.456	805.668	196.056	0.000	0.000	0.000	0.000
<b>85</b>	2693.730	2365.949	1533.731	655.563	109.260	0.000	0.000	0.000	0.000
<b>90</b>	2088.203	1819.647	1155.915	481.971	0.000	0.000	0.000	0.000	0.000
<b>95</b>	1769.611	1506.161	928.204	336.972	0.000	0.000	0.000	0.000	0.000
<b>100</b>	1356.055	1137.534	696.408	222.605	0.000	0.000	0.000	0.000	0.000
<b>105</b>	1023.168	864.894	509.542	113.345	0.000	0.000	0.000	0.000	0.000
<b>110</b>	791.373	668.838	377.817	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	591.232	500.352	255.282	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	441.126	363.521	131.725	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	296.127	218.521	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	168.486	95.986	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	22.465	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	713.22	N.A.	7.50
0-30	1584.82	N.A.	16.60
0-40	2738.02	N.A.	28.80
0-60	5414.03	N.A.	56.90
0-80	7767.37	N.A.	81.60
0-90	8570.67	N.A.	90.00
10-90	8393.26	N.A.	88.10
20-40	2024.8	N.A.	21.30
20-50	3346.99	N.A.	35.20
40-70	3954.37	N.A.	41.50
60-80	2353.34	N.A.	24.70
70-80	1074.98	N.A.	11.30
80-90	803.29	N.A.	8.40
90-110	767.06	N.A.	8.10
90-120	899.68	N.A.	9.40
90-130	945.81	N.A.	9.90
90-150	950.91	N.A.	10.00
90-180	950.91	N.A.	10.00
110-180	183.85	N.A.	1.90
0-180	9521.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	177.40
10-20	535.82
20-30	871.60
30-40	1153.2
40-50	1322.19
50-60	1353.82
60-70	1278.36
70-80	1074.98
80-90	803.29
90-100	496.27
100-110	270.78
110-120	132.62
120-130	46.14
130-140	5.10
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70	67
2	92	82	73	66	88	79	71	65	74	67	62	69	63	59	64	60	56	53
3	83	70	61	53	79	68	59	52	63	56	50	59	53	48	55	50	46	43
4	75	62	52	44	72	60	50	43	56	48	41	52	45	40	49	43	38	35
5	69	54	44	37	66	53	43	36	49	41	35	46	39	34	43	37	32	30
6	63	49	39	32	60	47	38	31	44	36	30	41	34	29	39	33	28	26
7	58	44	34	28	56	42	34	27	40	32	26	38	31	25	35	29	25	22
8	54	40	31	24	52	39	30	24	36	29	23	34	27	22	32	26	22	20
9	50	36	28	22	48	35	27	21	33	26	21	31	25	20	30	24	19	17
10	47	33	25	19	45	32	24	19	31	24	19	29	23	18	28	22	17	16

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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

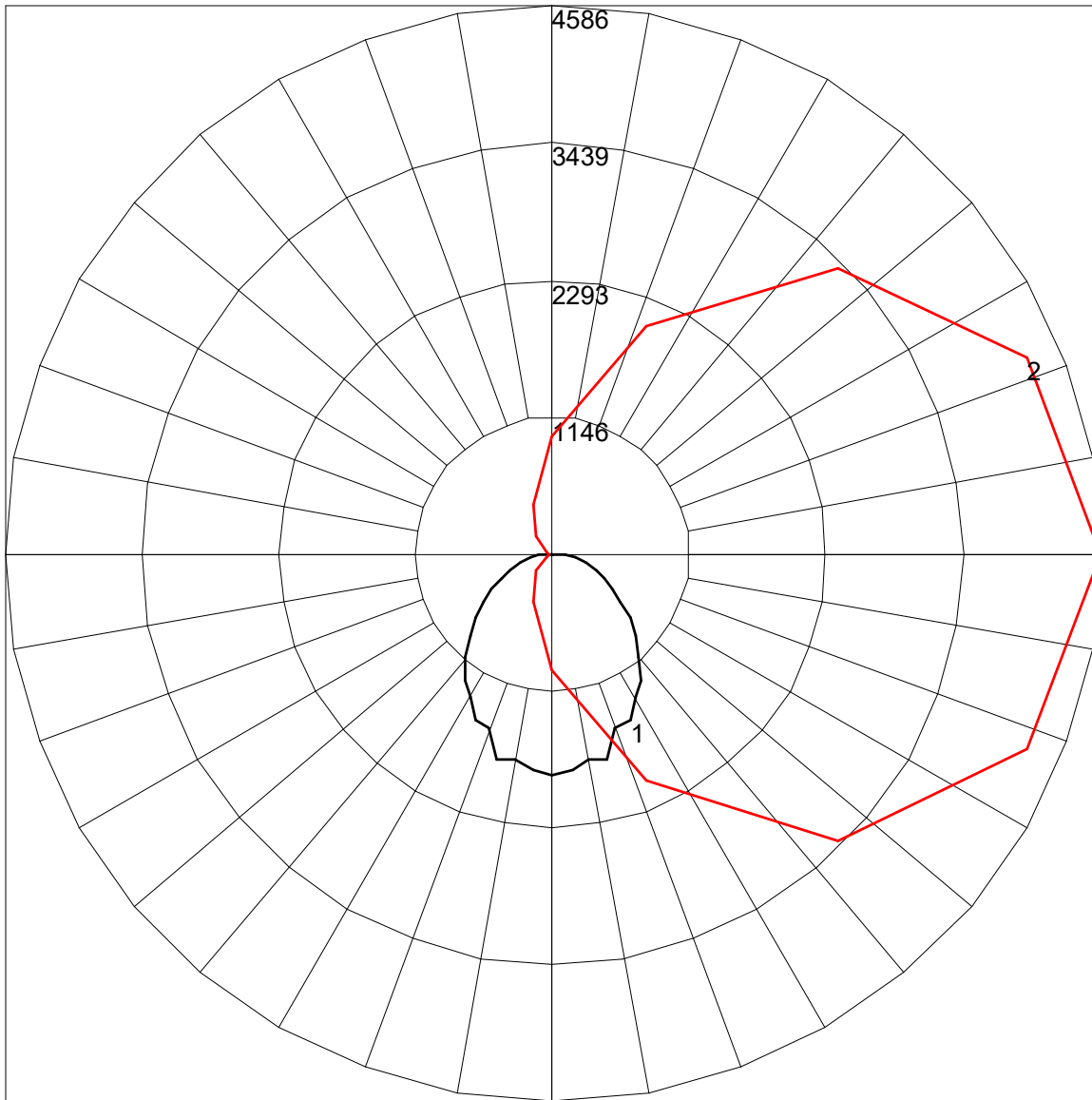
X=2H	Y=2H	26.3	27.8	26.8	28.3	28.9	15.5	17.1	16.0	17.6	18.2
	3H	29.3	30.8	29.8	31.3	31.9	16.7	18.1	17.2	18.7	19.2
	4H	30.7	32.1	31.3	32.6	33.2	17.1	18.4	17.6	19.0	19.6
	6H	32.2	33.5	32.7	34.0	34.6	17.3	18.6	17.9	19.1	19.8
	8H	32.9	34.1	33.5	34.7	35.3	17.4	18.6	17.9	19.2	19.8
	12H	33.6	34.8	34.2	35.4	36.0	17.4	18.6	18.0	19.2	19.8

UGR Viewed Endwise

4H	2H	26.5	27.9	27.0	28.4	29.0	18.5	19.9	19.0	20.4	21.0
	3H	29.8	31.0	30.3	31.5	32.2	19.9	21.1	20.4	21.7	22.3
	4H	31.3	32.4	31.9	33.0	33.7	20.3	21.4	20.9	22.0	22.7
	6H	33.0	34.0	33.6	34.6	35.2	20.6	21.6	21.2	22.2	22.9
	8H	33.8	34.7	34.4	35.4	36.0	20.7	21.6	21.3	22.2	22.9
	12H	34.7	35.6	35.3	36.2	36.9	20.8	21.6	21.4	22.2	22.9
8H	4H	31.5	32.4	32.1	33.0	33.7	22.2	23.1	22.8	23.7	24.4
	6H	33.3	34.0	33.9	34.7	35.4	22.8	23.6	23.4	24.2	24.9
	8H	34.2	34.9	34.9	35.6	36.3	22.9	23.7	23.6	24.3	25.0
	12H	35.3	35.9	35.9	36.6	37.3	23.1	23.7	23.7	24.4	25.1
12H	4H	31.4	32.3	32.1	32.9	33.6	22.8	23.6	23.4	24.3	24.9
	6H	33.3	34.0	33.9	34.6	35.4	23.5	24.2	24.2	24.9	25.6
	8H	34.3	34.9	34.9	35.6	36.3	23.8	24.5	24.5	25.1	25.9

Maximum UGR = 37.3

POLAR GRAPH



Maximum Candela = 4585.877 Located At Horizontal Angle = 0, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)