



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 76-8-L106-840-(L84)-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN from BALLABS TEST NO. 18634.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 04-20-2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO. 64836  
[LUMINAIRE] 8' LED STRIP LUMINAIRE  
[LUMCAT] 76-8-L106-840-(L84)-DIM-UNV  
[LAMPCAT] HLM 80 CRI, 4000K CCT  
[ \_SEARCH\_SOURCETYPE]LED  
[ \_SEARCH\_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR  
[ \_SEARCH\_APPLICATION]MANUFACTURING,WAREHOUSE  
[ \_SEARCH\_MOUNTING]CEILING,SURFACE,SUSPENDED

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	53.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10396	10322	10306
55	9875	9755	9695
65	9371	9248	8881
75	7762	7206	7206
85	5086	4689	4689

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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>
0	2917.815	2917.815	2917.815	2917.815	2917.815
5	2927.450	2927.450	2924.238	2924.238	2924.238
10	2885.698	2882.486	2882.486	2882.486	2879.275
15	2803.800	2803.800	2800.588	2798.983	2798.983
20	2762.048	2755.625	2754.019	2744.384	2747.596
25	2604.676	2603.070	2596.647	2595.041	2595.041
30	2471.391	2468.179	2463.362	2456.938	2455.332
35	2352.559	2349.347	2342.923	2336.500	2331.683
40	2175.916	2171.098	2166.281	2159.857	2159.857
45	2050.660	2049.054	2036.208	2034.602	2032.996
50	1804.966	1800.149	1795.331	1787.302	1785.696
55	1580.149	1573.725	1560.878	1554.455	1551.243
60	1321.608	1313.579	1305.550	1297.520	1286.279
65	1104.819	1100.002	1090.367	1067.885	1047.009
70	843.067	835.038	818.979	790.074	782.045
75	560.439	555.621	520.293	507.446	520.293
80	324.380	314.745	292.263	282.628	298.687
85	123.650	115.621	114.015	109.197	114.015
90	6.423	11.241	25.693	28.905	28.905

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1072.45	N.A.	12.70
0-30	2274.21	N.A.	26.90
0-40	3734.17	N.A.	44.10
0-60	6681.3	N.A.	78.90
0-80	8316.5	N.A.	98.20
0-90	8466.23	N.A.	100.00
10-90	8188.61	N.A.	96.70
20-40	2661.72	N.A.	31.40
20-50	4215.54	N.A.	49.80
40-70	4008.33	N.A.	47.30
60-80	1635.2	N.A.	19.30
70-80	574.00	N.A.	6.80
80-90	149.73	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	8466.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	277.62
10-20	794.83
20-30	1201.76
30-40	1459.96
40-50	1553.81
50-60	1393.31
60-70	1061.21
70-80	574.00
80-90	149.73
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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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	20.1	21.8	20.5	22.1	22.4	20.0	21.7	20.4	22.0	22.3
	3H	22.0	23.5	22.4	23.8	24.2	21.8	23.3	22.1	23.6	23.9
	4H	22.6	24.0	23.0	24.4	24.8	22.3	23.8	22.7	24.1	24.5
	6H	23.1	24.4	23.5	24.7	25.1	22.7	24.1	23.2	24.4	24.8
	8H	23.2	24.4	23.6	24.8	25.2	22.9	24.1	23.3	24.5	24.9
	12H	23.3	24.5	23.7	24.9	25.3	22.9	24.1	23.4	24.5	24.9

UGR Viewed Endwise

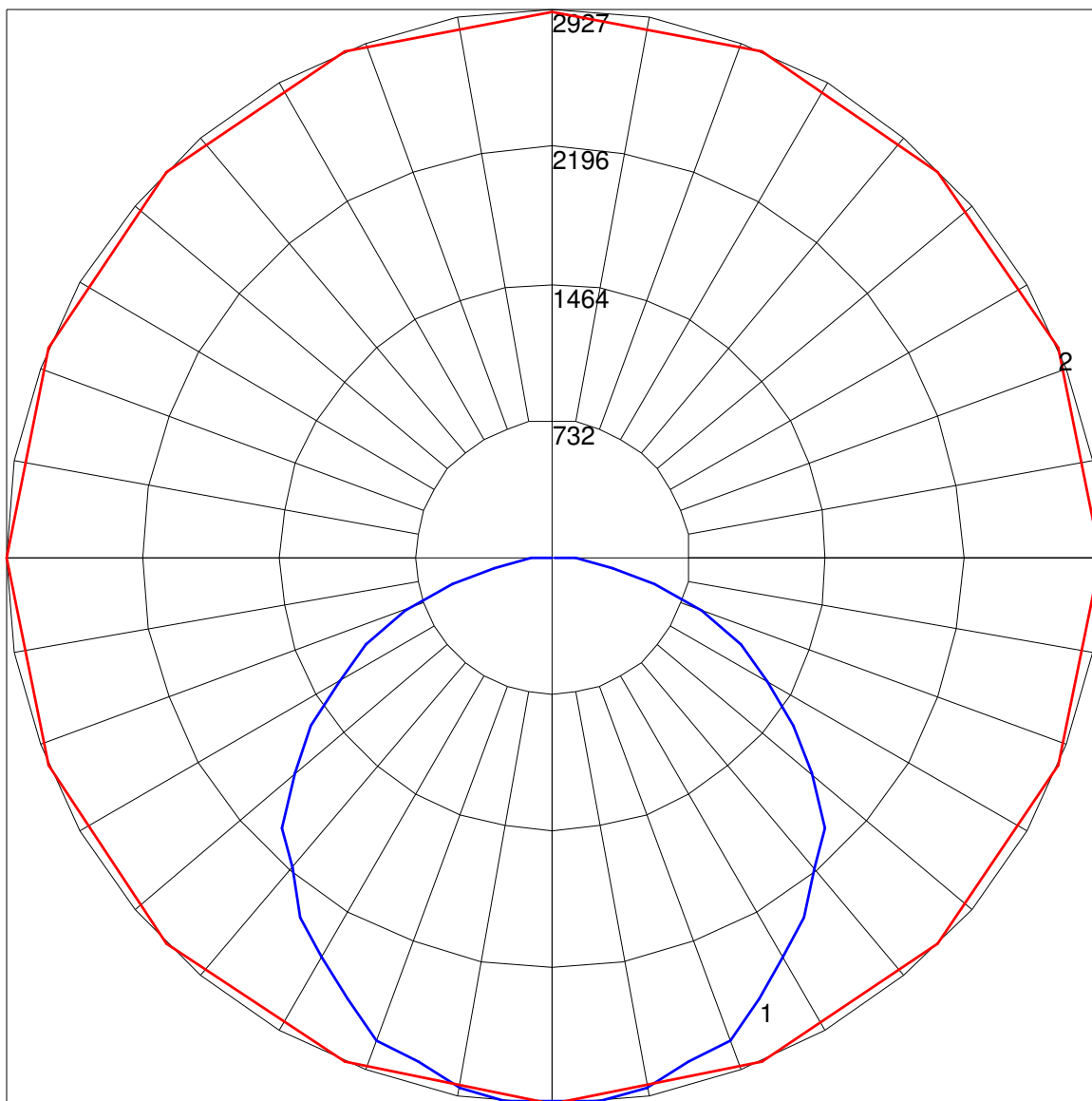
4H	2H	20.8	22.2	21.2	22.5	22.9	20.7	22.1	21.1	22.5	22.8
	3H	22.8	24.0	23.2	24.4	24.8	22.6	23.8	23.0	24.2	24.6
	4H	23.6	24.7	24.0	25.1	25.5	23.3	24.4	23.8	24.8	25.2
	6H	24.2	25.1	24.6	25.5	26.0	23.8	24.8	24.3	25.2	25.6
	8H	24.3	25.2	24.8	25.6	26.1	24.0	24.8	24.4	25.3	25.8
	12H	24.4	25.2	24.9	25.7	26.2	24.1	24.9	24.6	25.3	25.8

8H	4H	23.8	24.7	24.3	25.2	25.6	23.6	24.5	24.1	24.9	25.4
	6H	24.5	25.2	25.0	25.7	26.2	24.2	24.9	24.7	25.4	25.9
	8H	24.7	25.4	25.3	25.9	26.4	24.4	25.1	24.9	25.6	26.1
	12H	24.9	25.5	25.4	26.0	26.5	24.6	25.1	25.1	25.6	26.2

12H	4H	23.9	24.6	24.3	25.1	25.6	23.6	24.4	24.1	24.9	25.4
	6H	24.5	25.2	25.1	25.7	26.2	24.2	24.9	24.8	25.4	25.9
	8H	24.8	25.4	25.3	25.9	26.4	24.5	25.1	25.0	25.6	26.1

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 2927.45 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)