



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 80-8-L154-830-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM BALLABS TEST NO. 18635.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 2024-01-09  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 8' SUSPENDED INDUSTRIAL LED LUMINAIRE  
[MORE] WHITE REFLECTOR w/OPEN BOTTOM  
[MORE] 0-10V DIMMING DRIVER  
[LUMCAT] 80-8-L154-830-DIM-UNV  
[LAMPCAT] HLM 22 INCH LED ARRAYS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] INDOOR  
[ \_SEARCH\_MOUNTING] SUSPENDED

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	100.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8025	7831	7810
55	7733	7562	7531
65	7366	7203	3850
75	5923	3290	630
85	2661	1164	873

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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>
<b>0</b>	5559.756	5559.756	5559.756	5559.756	5559.756
<b>5</b>	5493.708	5474.838	5458.326	5479.555	5503.144
<b>10</b>	5382.843	5363.973	5448.891	5463.044	5408.791
<b>15</b>	5257.826	5312.079	5253.108	5210.649	5210.649
<b>20</b>	5099.784	5217.726	5050.249	5024.302	5024.302
<b>25</b>	4894.566	4920.513	4837.954	4823.801	4823.801
<b>30</b>	4632.736	4592.636	4561.972	4545.460	4540.742
<b>35</b>	4354.395	4314.295	4278.912	4274.195	4264.759
<b>40</b>	4047.747	3981.700	3962.830	3955.753	3951.035
<b>45</b>	3693.923	3618.441	3604.288	3599.570	3594.853
<b>50</b>	3281.129	3226.875	3210.364	3205.646	3205.646
<b>55</b>	2887.204	2828.234	2823.516	2811.722	2811.722
<b>60</b>	2439.027	2394.210	2389.492	2380.057	2372.980
<b>65</b>	2026.232	1986.132	1981.415	1526.161	1059.113
<b>70</b>	1547.391	1512.008	1210.078	820.872	837.384
<b>75</b>	997.784	997.784	554.324	478.842	106.147
<b>80</b>	528.377	342.030	96.712	80.200	80.200
<b>85</b>	150.965	80.200	66.047	49.535	49.535
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2006.94	N.A.	13.60
0-30	4244.04	N.A.	28.70
0-40	6929.26	N.A.	46.80
0-60	12238.84	N.A.	82.70
0-80	14699.32	N.A.	99.30
0-90	14795.62	N.A.	100.00
10-90	14273.89	N.A.	96.50
20-40	4922.32	N.A.	33.30
20-50	7709.73	N.A.	52.10
40-70	7064.00	N.A.	47.70
60-80	2460.48	N.A.	16.60
70-80	706.07	N.A.	4.80
80-90	96.30	N.A.	0.70
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	14795.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	521.72
10-20	1485.22
20-30	2237.1
30-40	2685.22
40-50	2787.41
50-60	2522.17
60-70	1754.42
70-80	706.07
80-90	96.30
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	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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**UGR TABLE - CORRECTED**

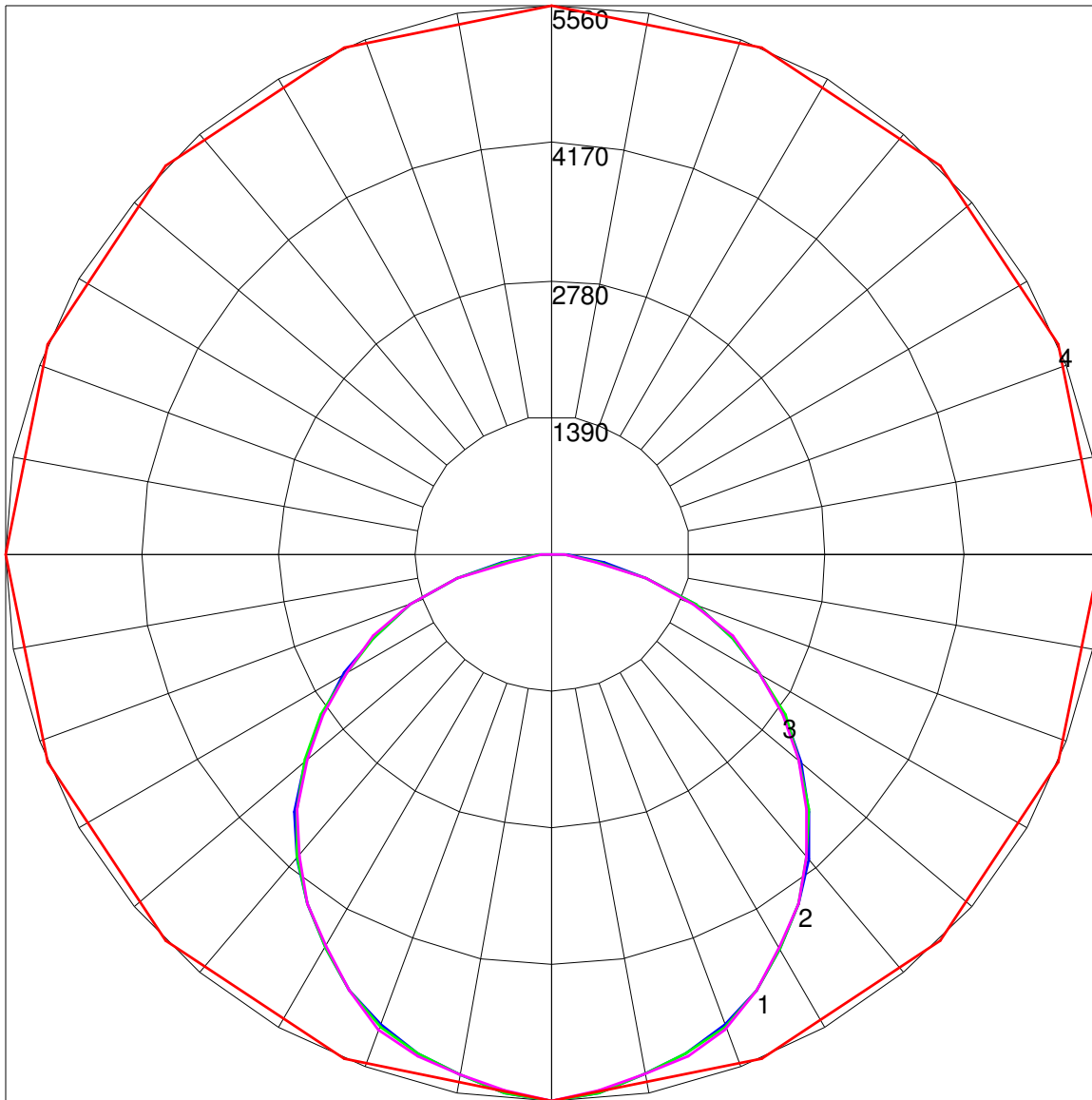
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.5	21.1	19.9	21.4	21.7	19.4	21.0	19.8	21.3	21.7
	3H	21.4	22.8	21.8	23.2	23.5	20.1	21.6	20.5	21.9	22.3
	4H	22.0	23.4	22.4	23.7	24.1	20.2	21.5	20.6	21.9	22.2
	6H	22.4	23.6	22.8	24.0	24.4	20.1	21.4	20.5	21.7	22.1
	8H	22.4	23.6	22.9	24.0	24.4	20.1	21.3	20.5	21.7	22.1
	12H	22.5	23.6	22.9	24.0	24.4	20.1	21.2	20.5	21.6	22.0
4H	2H	20.2	21.5	20.6	21.9	22.2	20.1	21.5	20.5	21.8	22.2
	3H	22.2	23.3	22.6	23.7	24.1	20.9	22.1	21.3	22.5	22.9
	4H	22.9	23.9	23.3	24.3	24.8	21.1	22.1	21.5	22.5	22.9
	6H	23.3	24.2	23.7	24.6	25.1	21.0	21.9	21.5	22.4	22.8
	8H	23.4	24.2	23.9	24.7	25.1	21.0	21.8	21.5	22.3	22.8
	12H	23.4	24.2	23.9	24.6	25.1	21.0	21.7	21.5	22.2	22.7
8H	4H	22.9	23.8	23.4	24.2	24.7	21.2	22.1	21.7	22.5	23.0
	6H	23.4	24.0	23.8	24.5	25.0	21.2	21.9	21.7	22.4	22.9
	8H	23.5	24.1	24.0	24.6	25.1	21.2	21.8	21.7	22.3	22.8
	12H	23.5	24.1	24.0	24.6	25.1	21.2	21.7	21.7	22.2	22.8
12H	4H	22.9	23.6	23.4	24.1	24.6	21.2	22.0	21.7	22.4	22.9
	6H	23.3	23.9	23.9	24.4	24.9	21.2	21.8	21.7	22.3	22.8
	8H	23.5	24.0	24.0	24.5	25.0	21.2	21.7	21.7	22.2	22.8

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 5559.756 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)