



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L154-827-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-L154-827-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	14487
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	7858	7668	7647
55	7572	7405	7374
65	7212	7053	3770
75	5799	3222	617
85	2606	1140	855

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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>	5443.925	5443.925	5443.925	5443.925	5443.925
<b>5</b>	5379.254	5360.777	5344.609	5365.396	5388.493
<b>10</b>	5270.699	5252.222	5335.370	5349.228	5296.105
<b>15</b>	5148.286	5201.408	5143.666	5102.092	5102.092
<b>20</b>	4993.537	5109.021	4945.034	4919.627	4919.627
<b>25</b>	4792.594	4818.001	4737.162	4723.304	4723.304
<b>30</b>	4536.219	4496.955	4466.929	4450.761	4446.142
<b>35</b>	4263.677	4224.412	4189.767	4185.147	4175.909
<b>40</b>	3963.418	3898.747	3880.269	3873.340	3868.721
<b>45</b>	3616.965	3543.055	3529.197	3524.578	3519.958
<b>50</b>	3212.770	3159.648	3143.480	3138.861	3138.861
<b>55</b>	2827.053	2769.311	2764.692	2753.143	2753.143
<b>60</b>	2388.213	2344.329	2339.710	2330.471	2323.542
<b>65</b>	1984.019	1944.754	1940.135	1494.366	1037.048
<b>70</b>	1515.153	1480.507	1184.868	803.770	819.938
<b>75</b>	976.996	976.996	542.776	468.866	103.936
<b>80</b>	517.369	334.904	94.697	78.529	78.529
<b>85</b>	147.820	78.529	64.671	48.503	48.503
<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	1965.13	N.A.	13.60
0-30	4155.62	N.A.	28.70
0-40	6784.89	N.A.	46.80
0-60	11983.86	N.A.	82.70
0-80	14393.08	N.A.	99.30
0-90	14487.37	N.A.	100.00
10-90	13976.52	N.A.	96.50
20-40	4819.77	N.A.	33.30
20-50	7549.11	N.A.	52.10
40-70	6916.83	N.A.	47.70
60-80	2409.22	N.A.	16.60
70-80	691.36	N.A.	4.80
80-90	94.29	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	14487.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	510.86
10-20	1454.27
20-30	2190.49
30-40	2629.28
40-50	2729.34
50-60	2469.63
60-70	1717.86
70-80	691.36
80-90	94.29
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	40	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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**UGR TABLE - CORRECTED**

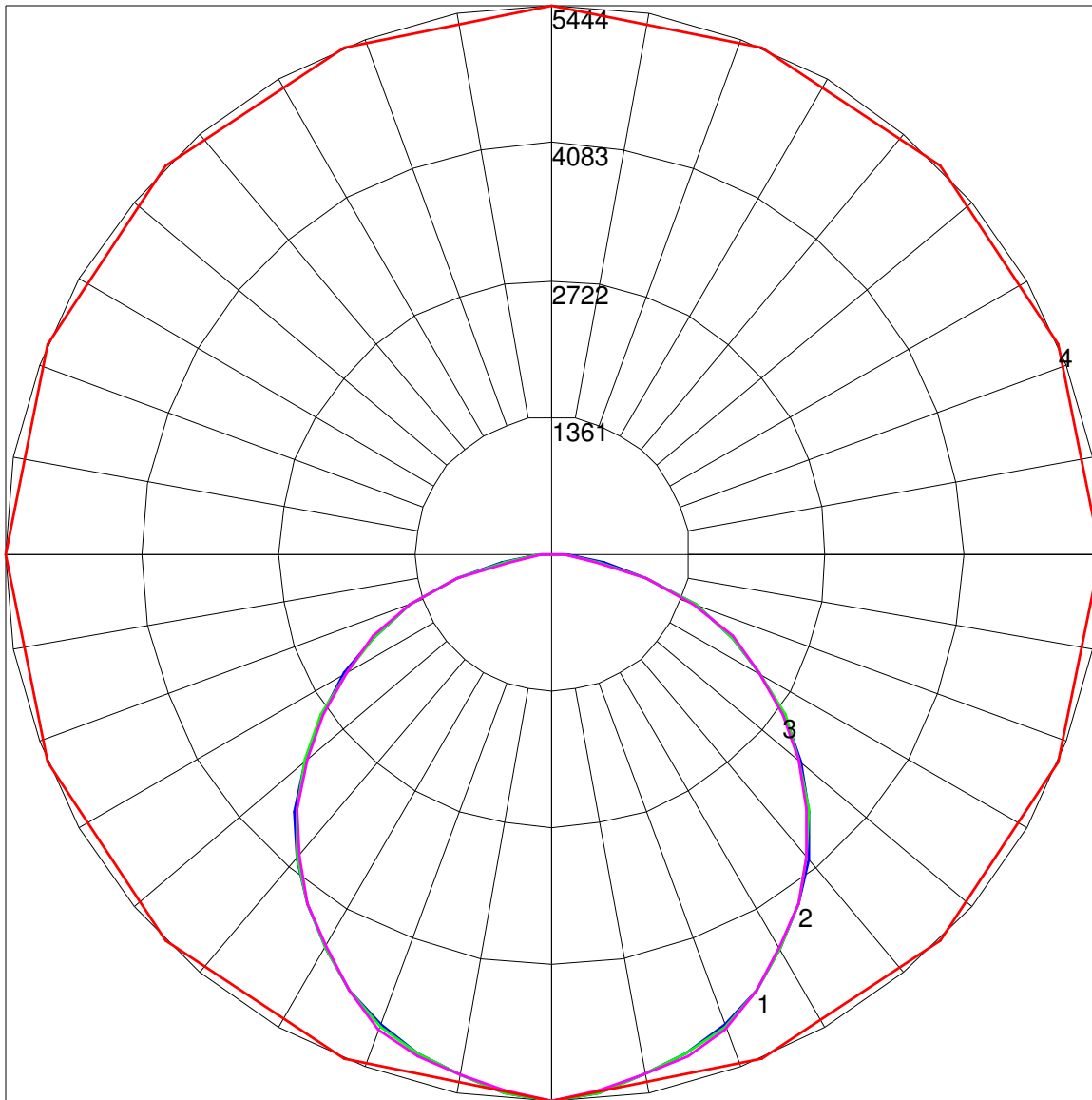
Reflectances

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	19.4	21.0	19.8	21.3	21.6	19.3	20.9	19.7	21.2	21.6
	3H	21.3	22.7	21.7	23.1	23.4	20.0	21.5	20.4	21.8	22.2
	4H	21.9	23.3	22.3	23.6	24.0	20.1	21.4	20.5	21.8	22.1
	6H	22.3	23.5	22.7	23.9	24.3	20.0	21.3	20.4	21.6	22.0
	8H	22.3	23.5	22.8	23.9	24.3	20.0	21.2	20.4	21.6	22.0
	12H	22.4	23.5	22.8	23.9	24.3	20.0	21.1	20.4	21.5	21.9
4H	2H	20.1	21.4	20.5	21.8	22.1	20.0	21.4	20.4	21.7	22.1
	3H	22.1	23.2	22.5	23.6	24.0	20.8	22.0	21.2	22.4	22.8
	4H	22.8	23.8	23.2	24.2	24.7	21.0	22.0	21.4	22.4	22.8
	6H	23.2	24.1	23.6	24.5	25.0	20.9	21.8	21.4	22.3	22.7
	8H	23.3	24.1	23.8	24.6	25.0	20.9	21.7	21.4	22.2	22.7
	12H	23.3	24.1	23.8	24.5	25.0	20.9	21.6	21.4	22.1	22.6
8H	4H	22.8	23.7	23.3	24.1	24.6	21.1	22.0	21.6	22.4	22.9
	6H	23.3	23.9	23.7	24.4	24.9	21.1	21.8	21.6	22.3	22.8
	8H	23.4	24.0	23.9	24.5	25.0	21.1	21.7	21.6	22.2	22.7
	12H	23.4	24.0	23.9	24.5	25.0	21.1	21.6	21.6	22.1	22.7
12H	4H	22.8	23.5	23.3	24.0	24.5	21.1	21.9	21.6	22.3	22.8
	6H	23.2	23.8	23.8	24.3	24.8	21.1	21.7	21.6	22.2	22.7
	8H	23.4	23.9	23.9	24.4	24.9	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 5443.925 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.)