



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 80-8-L154-850-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-L154-850-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	15874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
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	8611	8402	8380
55	8297	8114	8080
65	7903	7728	4131
75	6354	3530	676
85	2855	1249	937

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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	5965.152	5965.152	5965.152	5965.152	5965.152
5	5894.289	5874.042	5856.327	5879.104	5904.412
10	5775.340	5755.094	5846.203	5861.388	5803.179
15	5641.207	5699.416	5636.145	5590.590	5590.590
20	5471.641	5598.183	5418.494	5390.655	5390.655
25	5251.460	5279.299	5190.720	5175.535	5175.535
30	4970.538	4927.514	4894.614	4876.898	4871.836
35	4671.901	4628.877	4590.915	4585.853	4575.730
40	4342.894	4272.031	4251.784	4244.192	4239.130
45	3963.270	3882.284	3867.099	3862.037	3856.976
50	3520.376	3462.167	3444.451	3439.390	3439.390
55	3097.729	3034.458	3029.396	3016.742	3016.742
60	2616.872	2568.786	2563.725	2553.601	2546.009
65	2173.978	2130.954	2125.892	1637.443	1136.340
70	1660.221	1622.258	1298.313	880.727	898.443
75	1070.539	1070.539	594.744	513.757	113.887
80	566.905	366.969	103.764	86.048	86.048
85	161.973	86.048	70.863	53.147	53.147
90	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2153.28	N.A.	13.60
0-30	4553.5	N.A.	28.70
0-40	7434.51	N.A.	46.80
0-60	13131.25	N.A.	82.70
0-80	15771.14	N.A.	99.30
0-90	15874.46	N.A.	100.00
10-90	15314.69	N.A.	96.50
20-40	5281.23	N.A.	33.30
20-50	8271.89	N.A.	52.10
40-70	7579.08	N.A.	47.70
60-80	2639.89	N.A.	16.60
70-80	757.55	N.A.	4.80
80-90	103.32	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	15874.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	559.77
10-20	1593.51
20-30	2400.22
30-40	2881.02
40-50	2990.66
50-60	2706.08
60-70	1882.34
70-80	757.55
80-90	103.32
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**

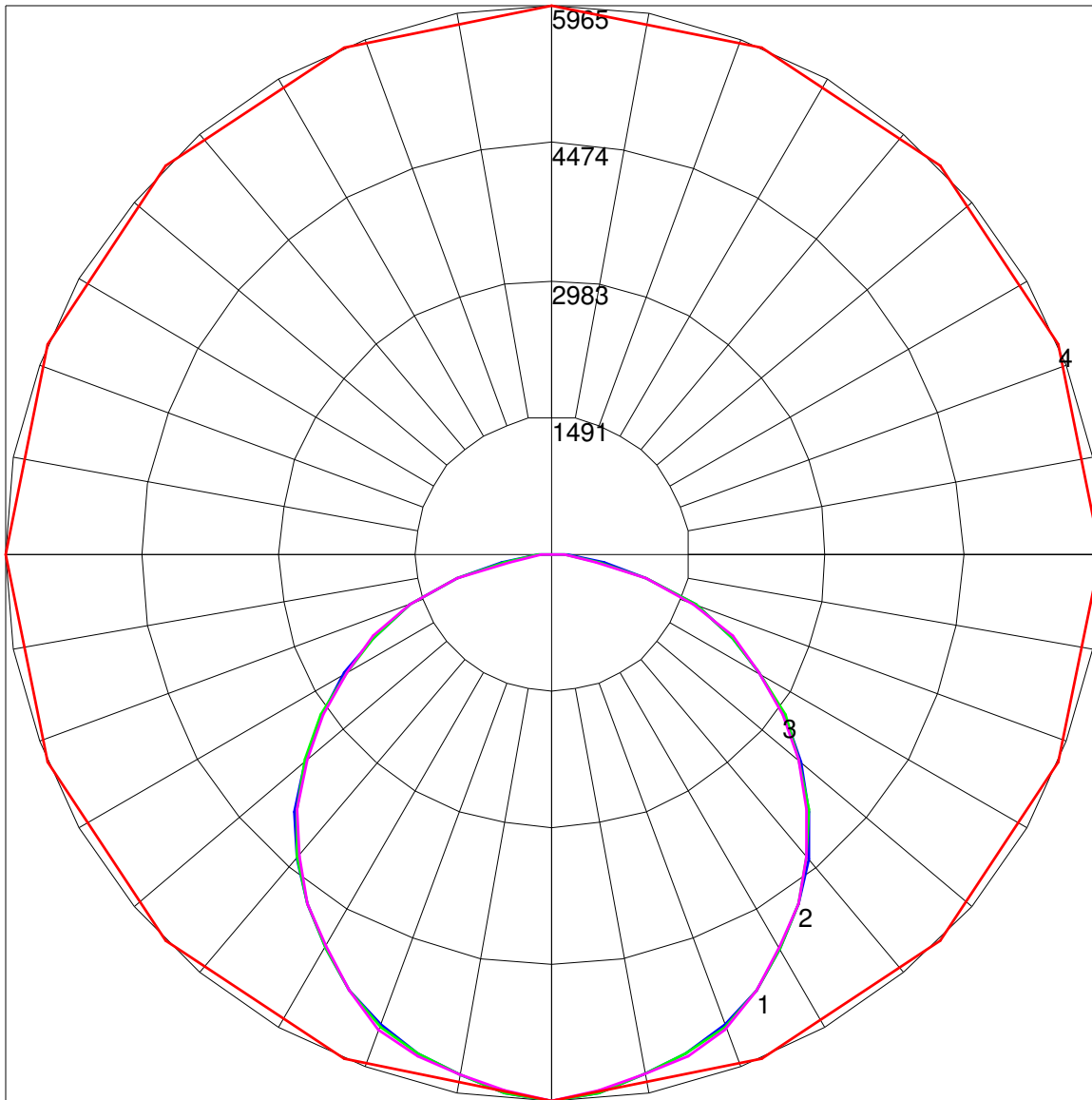
Reflectances

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	19.7	21.3	20.1	21.6	21.9	19.6	21.2	20.0	21.5	21.9
	3H	21.6	23.0	22.0	23.4	23.7	20.3	21.8	20.7	22.1	22.5
	4H	22.2	23.6	22.6	23.9	24.3	20.4	21.7	20.8	22.1	22.4
	6H	22.6	23.8	23.0	24.2	24.6	20.3	21.6	20.7	21.9	22.3
	8H	22.6	23.8	23.1	24.2	24.6	20.3	21.5	20.7	21.9	22.3
	12H	22.7	23.8	23.1	24.2	24.6	20.3	21.4	20.7	21.8	22.2
4H	2H	20.4	21.7	20.8	22.1	22.4	20.3	21.7	20.7	22.0	22.4
	3H	22.4	23.5	22.8	23.9	24.3	21.1	22.3	21.5	22.7	23.1
	4H	23.1	24.1	23.5	24.5	25.0	21.3	22.3	21.7	22.7	23.1
	6H	23.5	24.4	23.9	24.8	25.3	21.2	22.1	21.7	22.6	23.0
	8H	23.6	24.4	24.1	24.9	25.3	21.2	22.0	21.7	22.5	23.0
	12H	23.6	24.4	24.1	24.8	25.3	21.2	21.9	21.7	22.4	22.9
8H	4H	23.1	24.0	23.6	24.4	24.9	21.4	22.3	21.9	22.7	23.2
	6H	23.6	24.2	24.0	24.7	25.2	21.4	22.1	21.9	22.6	23.1
	8H	23.7	24.3	24.2	24.8	25.3	21.4	22.0	21.9	22.5	23.0
	12H	23.7	24.3	24.2	24.8	25.3	21.4	21.9	21.9	22.4	23.0
12H	4H	23.1	23.8	23.6	24.3	24.8	21.4	22.2	21.9	22.6	23.1
	6H	23.5	24.1	24.1	24.6	25.1	21.4	22.0	21.9	22.5	23.0
	8H	23.7	24.2	24.2	24.7	25.2	21.4	21.9	21.9	22.4	23.0

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 5965.152 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.)