



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 80-8-L154-935-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-L154-935-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	12330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	6688	6526	6508
55	6444	6302	6276
65	6138	6002	3208
75	4935	2742	525
85	2218	970	728

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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	4633.129	4633.129	4633.129	4633.129	4633.129
5	4578.090	4562.364	4548.604	4566.295	4585.952
10	4485.702	4469.977	4540.741	4552.536	4507.325
15	4381.521	4426.732	4377.589	4342.207	4342.207
20	4249.819	4348.104	4208.540	4186.917	4186.917
25	4078.805	4100.427	4031.628	4019.834	4019.834
30	3860.613	3827.196	3801.642	3787.883	3783.951
35	3628.662	3595.245	3565.760	3561.828	3553.966
40	3373.122	3318.083	3302.357	3296.460	3292.529
45	3078.269	3015.367	3003.573	2999.641	2995.710
50	2734.273	2689.062	2675.303	2671.371	2671.371
55	2406.003	2356.861	2352.930	2343.101	2343.101
60	2032.522	1995.174	1991.243	1983.380	1977.483
65	1688.527	1655.110	1651.179	1271.801	882.594
70	1289.492	1260.007	1008.398	684.060	697.820
75	831.486	831.486	461.937	399.035	88.456
80	440.314	285.025	80.593	66.833	66.833
85	125.804	66.833	55.039	41.279	41.279
90	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1672.45	N.A.	13.60
0-30	3536.7	N.A.	28.70
0-40	5774.38	N.A.	46.80
0-60	10199.03	N.A.	82.70
0-80	12249.43	N.A.	99.30
0-90	12329.68	N.A.	100.00
10-90	11894.91	N.A.	96.50
20-40	4101.93	N.A.	33.30
20-50	6424.77	N.A.	52.10
40-70	5886.67	N.A.	47.70
60-80	2050.4	N.A.	16.60
70-80	588.39	N.A.	4.80
80-90	80.25	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	12329.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	434.77
10-20	1237.68
20-30	1864.25
30-40	2237.68
40-50	2322.84
50-60	2101.81
60-70	1462.01
70-80	588.39
80-90	80.25
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**

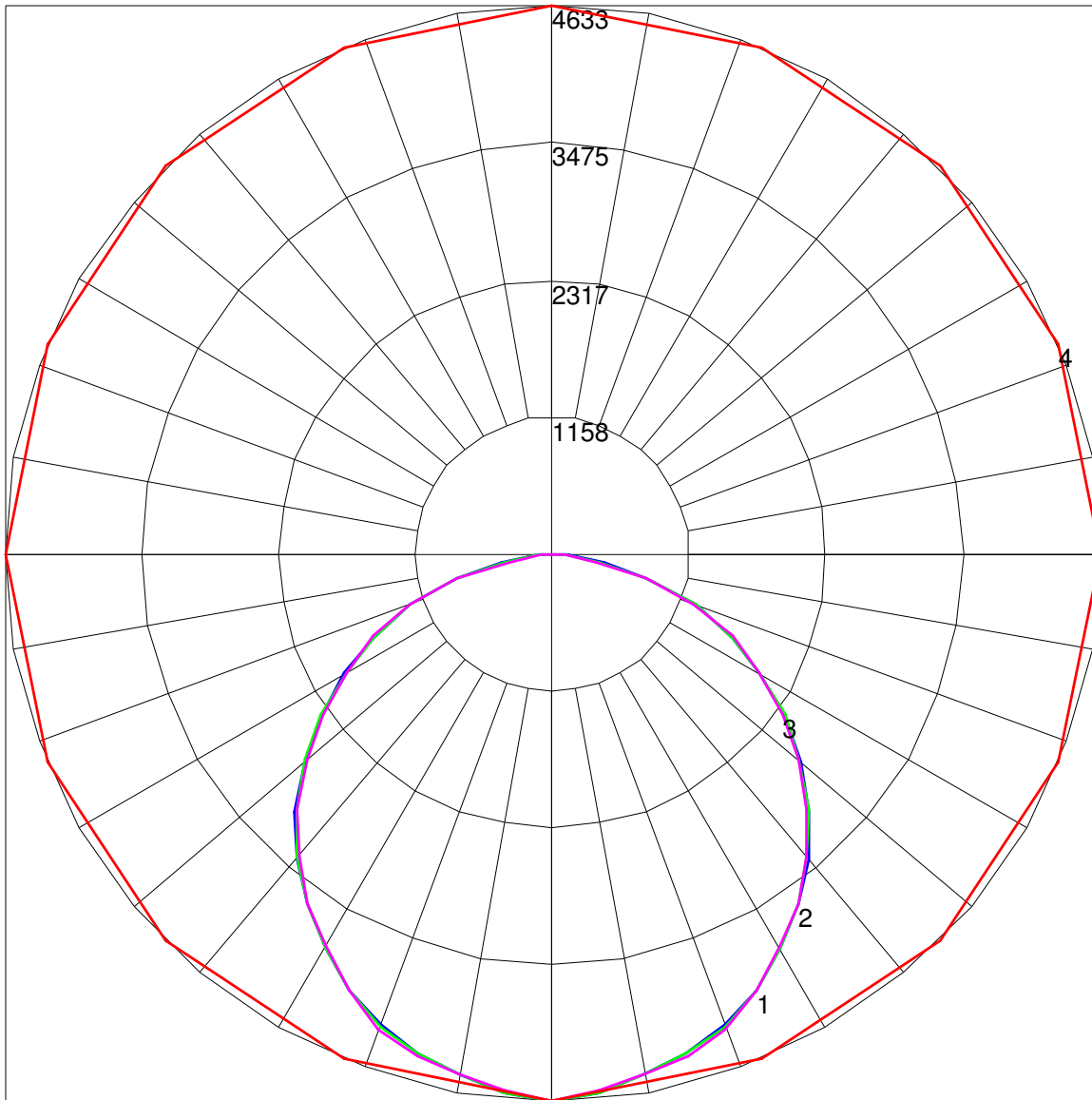
Reflectances

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	18.8	20.4	19.2	20.7	21.0	18.7	20.3	19.1	20.6	21.0
	3H	20.7	22.1	21.1	22.5	22.8	19.4	20.9	19.8	21.2	21.6
	4H	21.3	22.7	21.7	23.0	23.4	19.5	20.8	19.9	21.2	21.5
	6H	21.7	22.9	22.1	23.3	23.7	19.4	20.7	19.8	21.0	21.4
	8H	21.7	22.9	22.2	23.3	23.7	19.4	20.6	19.8	21.0	21.4
	12H	21.8	22.9	22.2	23.3	23.7	19.4	20.5	19.8	20.9	21.3
4H	2H	19.5	20.8	19.9	21.2	21.5	19.4	20.8	19.8	21.1	21.5
	3H	21.5	22.6	21.9	23.0	23.4	20.2	21.4	20.6	21.8	22.2
	4H	22.2	23.2	22.6	23.6	24.1	20.4	21.4	20.8	21.8	22.2
	6H	22.6	23.5	23.0	23.9	24.4	20.3	21.2	20.8	21.7	22.1
	8H	22.7	23.5	23.2	24.0	24.4	20.3	21.1	20.8	21.6	22.1
	12H	22.7	23.5	23.2	23.9	24.4	20.3	21.0	20.8	21.5	22.0
8H	4H	22.2	23.1	22.7	23.5	24.0	20.5	21.4	21.0	21.8	22.3
	6H	22.7	23.3	23.1	23.8	24.3	20.5	21.2	21.0	21.7	22.2
	8H	22.8	23.4	23.3	23.9	24.4	20.5	21.1	21.0	21.6	22.1
	12H	22.8	23.4	23.3	23.9	24.4	20.5	21.0	21.0	21.5	22.1
12H	4H	22.2	22.9	22.7	23.4	23.9	20.5	21.3	21.0	21.7	22.2
	6H	22.6	23.2	23.2	23.7	24.2	20.5	21.1	21.0	21.6	22.1
	8H	22.8	23.3	23.3	23.8	24.3	20.5	21.0	21.0	21.5	22.1

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 4633.129 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.)