



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-850-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-L106-850-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	10974
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	66.4
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	5953	5808	5793
55	5736	5609	5586
65	5463	5342	2856
75	4393	2441	467
85	1974	864	648

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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	4123.857	4123.857	4123.857	4123.857	4123.857
5	4074.867	4060.870	4048.623	4064.370	4081.866
10	3992.635	3978.638	4041.625	4052.122	4011.881
15	3899.905	3940.147	3896.406	3864.913	3864.913
20	3782.681	3870.162	3745.939	3726.693	3726.693
25	3630.464	3649.709	3588.473	3577.975	3577.975
30	3436.256	3406.512	3383.767	3371.520	3368.020
35	3229.800	3200.057	3173.813	3170.313	3163.315
40	3002.350	2953.360	2939.363	2934.114	2930.615
45	2739.907	2683.919	2673.421	2669.922	2666.422
50	2433.723	2393.482	2381.234	2377.735	2377.735
55	2141.536	2097.796	2094.296	2085.548	2085.548
60	1809.108	1775.865	1772.366	1765.368	1760.119
65	1502.924	1473.181	1469.682	1132.005	785.580
70	1147.751	1121.507	897.556	608.868	621.115
75	740.090	740.090	411.161	355.173	78.733
80	391.915	253.695	71.734	59.487	59.487
85	111.976	59.487	48.989	36.742	36.742
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1488.61	N.A.	13.60
0-30	3147.94	N.A.	28.70
0-40	5139.66	N.A.	46.80
0-60	9077.96	N.A.	82.70
0-80	10902.98	N.A.	99.30
0-90	10974.41	N.A.	100.00
10-90	10587.42	N.A.	96.50
20-40	3651.05	N.A.	33.30
20-50	5718.56	N.A.	52.10
40-70	5239.6	N.A.	47.70
60-80	1825.02	N.A.	16.60
70-80	523.71	N.A.	4.80
80-90	71.43	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	10974.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	386.98
10-20	1101.63
20-30	1659.33
30-40	1991.72
40-50	2067.52
50-60	1870.78
60-70	1301.31
70-80	523.71
80-90	71.43
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

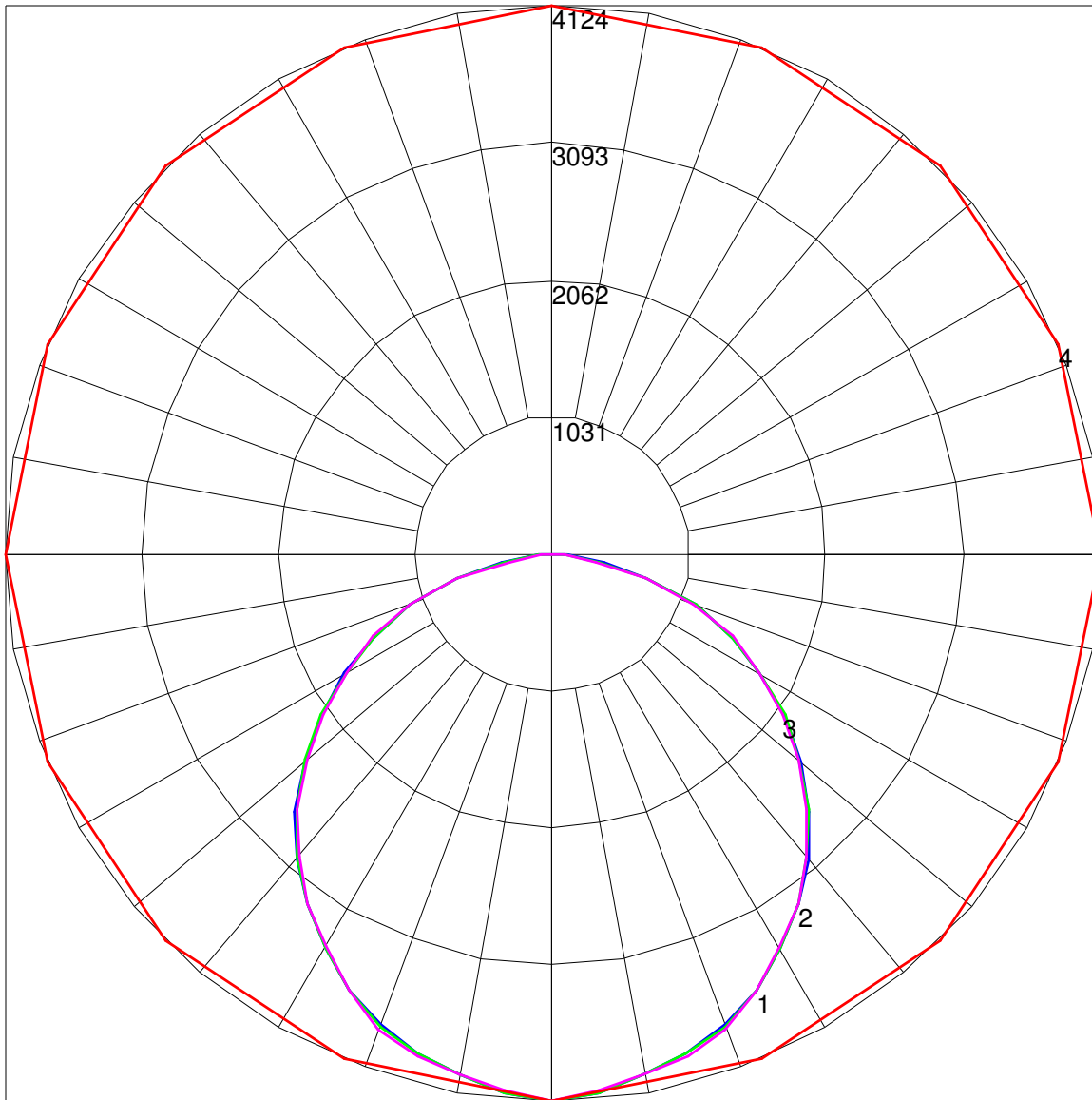
Reflectances

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	18.4	20.0	18.8	20.3	20.6	18.3	19.9	18.7	20.2	20.6
	3H	20.3	21.7	20.7	22.1	22.4	19.0	20.5	19.4	20.8	21.2
	4H	20.9	22.3	21.3	22.6	23.0	19.1	20.4	19.5	20.8	21.1
	6H	21.3	22.5	21.7	22.9	23.3	19.0	20.3	19.4	20.6	21.0
	8H	21.3	22.5	21.8	22.9	23.3	19.0	20.2	19.4	20.6	21.0
	12H	21.4	22.5	21.8	22.9	23.3	19.0	20.1	19.4	20.5	20.9
4H	2H	19.1	20.4	19.5	20.8	21.1	19.0	20.4	19.4	20.7	21.1
	3H	21.1	22.2	21.5	22.6	23.0	19.8	21.0	20.2	21.4	21.8
	4H	21.8	22.8	22.2	23.2	23.7	20.0	21.0	20.4	21.4	21.8
	6H	22.2	23.1	22.6	23.5	24.0	19.9	20.8	20.4	21.3	21.7
	8H	22.3	23.1	22.8	23.6	24.0	19.9	20.7	20.4	21.2	21.7
	12H	22.3	23.1	22.8	23.5	24.0	19.9	20.6	20.4	21.1	21.6
8H	4H	21.8	22.7	22.3	23.1	23.6	20.1	21.0	20.6	21.4	21.9
	6H	22.3	22.9	22.7	23.4	23.9	20.1	20.8	20.6	21.3	21.8
	8H	22.4	23.0	22.9	23.5	24.0	20.1	20.7	20.6	21.2	21.7
	12H	22.4	23.0	22.9	23.5	24.0	20.1	20.6	20.6	21.1	21.7
12H	4H	21.8	22.5	22.3	23.0	23.5	20.1	20.9	20.6	21.3	21.8
	6H	22.2	22.8	22.8	23.3	23.8	20.1	20.7	20.6	21.2	21.7
	8H	22.4	22.9	22.9	23.4	23.9	20.1	20.6	20.6	21.1	21.7

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 4123.857 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.)