



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-840-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-L106-840-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	10655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
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	5779	5639	5624
55	5569	5446	5423
65	5304	5187	2772
75	4265	2369	454
85	1916	838	629

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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	4003.744	4003.744	4003.744	4003.744	4003.744
5	3956.181	3942.592	3930.701	3945.989	3962.976
10	3876.344	3862.755	3923.907	3934.099	3895.030
15	3786.315	3825.385	3782.918	3752.342	3752.342
20	3672.505	3757.438	3636.833	3618.148	3618.148
25	3524.722	3543.407	3483.954	3473.762	3473.762
30	3336.170	3307.293	3285.210	3273.320	3269.922
35	3135.728	3106.851	3081.371	3077.974	3071.179
40	2914.902	2867.340	2853.750	2848.654	2845.257
45	2660.103	2605.746	2595.554	2592.157	2588.759
50	2362.837	2323.768	2311.878	2308.480	2308.480
55	2079.161	2036.695	2033.297	2024.804	2024.804
60	1756.415	1724.141	1720.744	1713.949	1708.853
65	1459.150	1430.273	1426.875	1099.034	762.699
70	1114.322	1088.842	871.413	591.134	603.025
75	718.534	718.534	399.185	344.828	76.440
80	380.500	246.306	69.645	57.754	57.754
85	108.714	57.754	47.563	35.672	35.672
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1445.26	N.A.	13.60
0-30	3056.26	N.A.	28.70
0-40	4989.96	N.A.	46.80
0-60	8813.55	N.A.	82.70
0-80	10585.42	N.A.	99.30
0-90	10654.76	N.A.	100.00
10-90	10279.05	N.A.	96.50
20-40	3544.71	N.A.	33.30
20-50	5552.00	N.A.	52.10
40-70	5086.99	N.A.	47.70
60-80	1771.87	N.A.	16.60
70-80	508.46	N.A.	4.80
80-90	69.35	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	10654.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	375.71
10-20	1069.55
20-30	1611.00
30-40	1933.71
40-50	2007.3
50-60	1816.29
60-70	1263.41
70-80	508.46
80-90	69.35
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

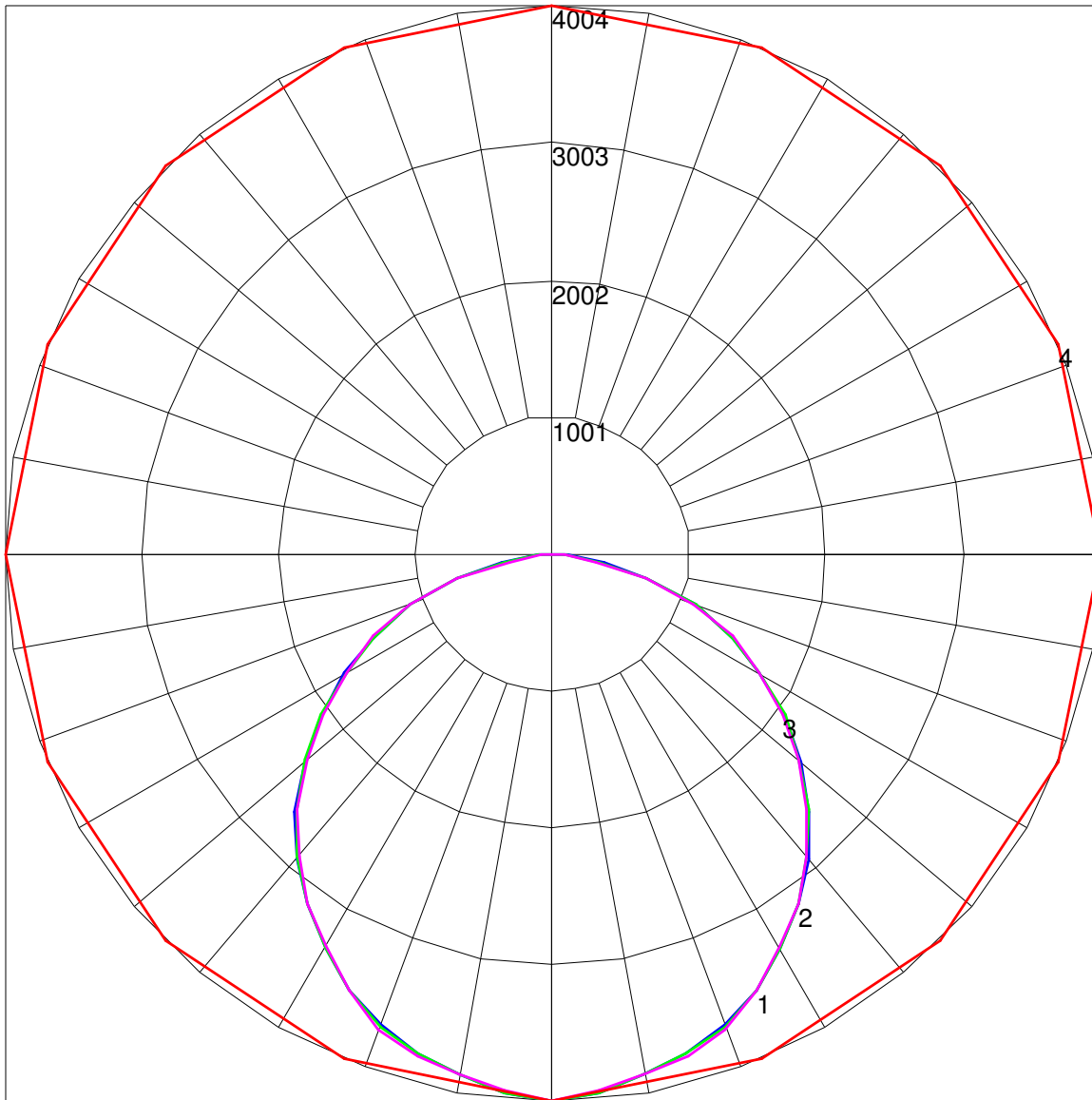
Reflectances

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	18.3	19.9	18.7	20.2	20.5	18.2	19.8	18.6	20.1	20.5
	3H	20.2	21.6	20.6	22.0	22.3	18.9	20.4	19.3	20.7	21.1
	4H	20.8	22.2	21.2	22.5	22.9	19.0	20.3	19.4	20.7	21.0
	6H	21.2	22.4	21.6	22.8	23.2	18.9	20.2	19.3	20.5	20.9
	8H	21.2	22.4	21.7	22.8	23.2	18.9	20.1	19.3	20.5	20.9
	12H	21.3	22.4	21.7	22.8	23.2	18.9	20.0	19.3	20.4	20.8
4H	2H	19.0	20.3	19.4	20.7	21.0	18.9	20.3	19.3	20.6	21.0
	3H	21.0	22.1	21.4	22.5	22.9	19.7	20.9	20.1	21.3	21.7
	4H	21.7	22.7	22.1	23.1	23.6	19.9	20.9	20.3	21.3	21.7
	6H	22.1	23.0	22.5	23.4	23.9	19.8	20.7	20.3	21.2	21.6
	8H	22.2	23.0	22.7	23.5	23.9	19.8	20.6	20.3	21.1	21.6
	12H	22.2	23.0	22.7	23.4	23.9	19.8	20.5	20.3	21.0	21.5
8H	4H	21.7	22.6	22.2	23.0	23.5	20.0	20.9	20.5	21.3	21.8
	6H	22.2	22.8	22.6	23.3	23.8	20.0	20.7	20.5	21.2	21.7
	8H	22.3	22.9	22.8	23.4	23.9	20.0	20.6	20.5	21.1	21.6
	12H	22.3	22.9	22.8	23.4	23.9	20.0	20.5	20.5	21.0	21.6
12H	4H	21.7	22.4	22.2	22.9	23.4	20.0	20.8	20.5	21.2	21.7
	6H	22.1	22.7	22.7	23.2	23.7	20.0	20.6	20.5	21.1	21.6
	8H	22.3	22.8	22.8	23.3	23.8	20.0	20.5	20.5	21.0	21.6

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 4003.744 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.)