



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-835-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-L106-835-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	10335
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
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	5606	5470	5456
55	5402	5283	5261
65	5145	5031	2689
75	4137	2298	440
85	1859	813	610

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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	3883.631	3883.631	3883.631	3883.631	3883.631
5	3837.496	3824.314	3812.780	3827.609	3844.086
10	3760.054	3746.872	3806.189	3816.076	3778.178
15	3672.726	3710.623	3669.430	3639.772	3639.772
20	3562.330	3644.715	3527.728	3509.603	3509.603
25	3418.980	3437.104	3379.435	3369.549	3369.549
30	3236.085	3208.074	3186.654	3175.120	3171.824
35	3041.656	3013.645	2988.930	2985.634	2979.043
40	2827.455	2781.319	2768.138	2763.195	2759.899
45	2580.300	2527.573	2517.687	2514.392	2511.096
50	2291.952	2254.055	2242.521	2239.226	2239.226
55	2016.786	1975.594	1972.298	1964.060	1964.060
60	1703.723	1672.417	1669.121	1662.530	1657.587
65	1415.375	1387.364	1384.069	1066.063	739.818
70	1080.892	1056.176	845.271	573.400	584.934
75	696.978	696.978	387.210	334.483	74.147
80	369.085	238.917	67.556	56.022	56.022
85	105.453	56.022	46.136	34.602	34.602
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1401.9	N.A.	13.60
0-30	2964.57	N.A.	28.70
0-40	4840.26	N.A.	46.80
0-60	8549.14	N.A.	82.70
0-80	10267.85	N.A.	99.30
0-90	10335.12	N.A.	100.00
10-90	9970.68	N.A.	96.50
20-40	3438.36	N.A.	33.30
20-50	5385.44	N.A.	52.10
40-70	4934.38	N.A.	47.70
60-80	1718.71	N.A.	16.60
70-80	493.21	N.A.	4.80
80-90	67.27	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	10335.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	364.44
10-20	1037.46
20-30	1562.67
30-40	1875.69
40-50	1947.08
50-60	1761.8
60-70	1225.5
70-80	493.21
80-90	67.27
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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

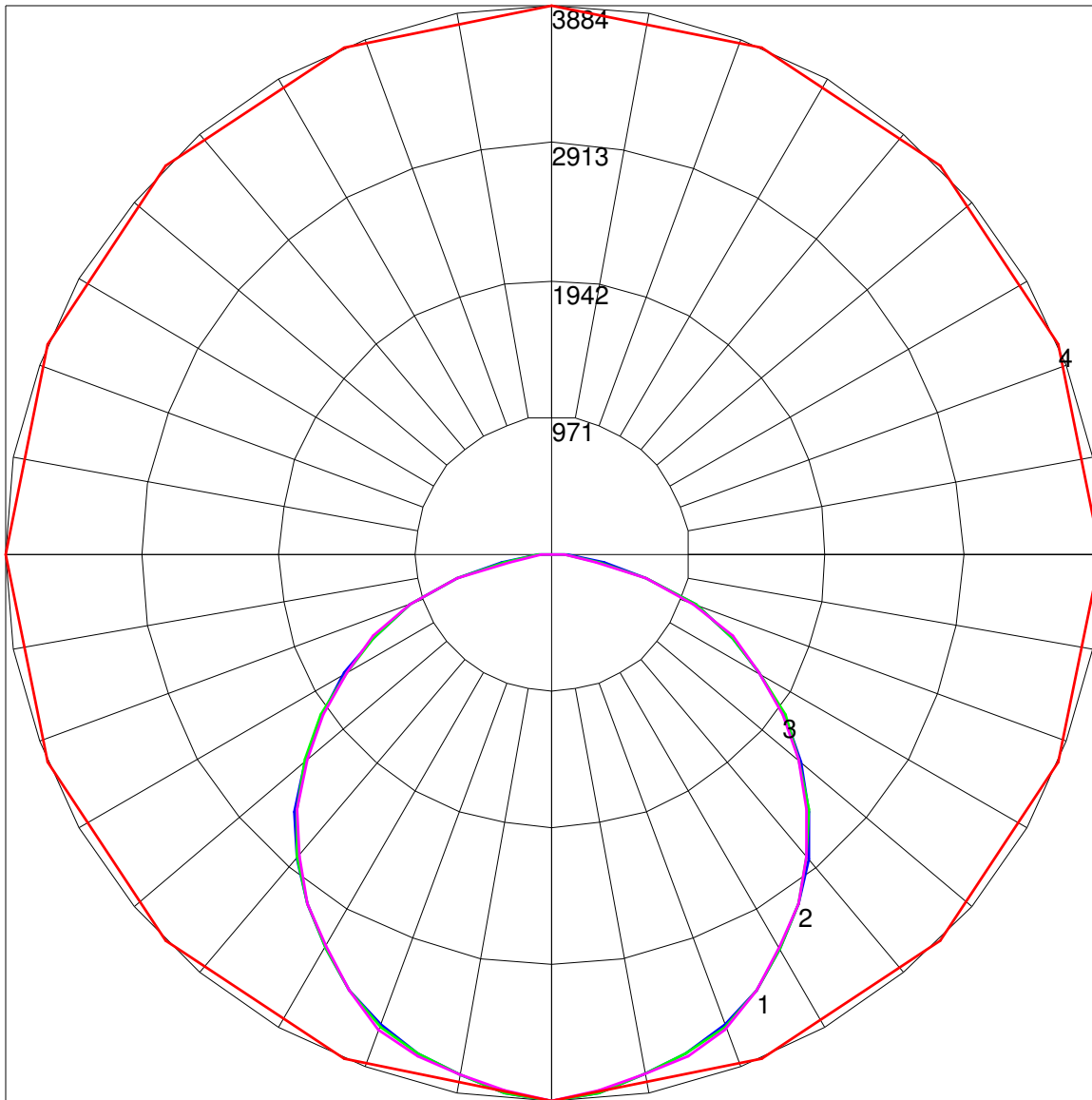
Reflectances

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	18.2	19.8	18.6	20.1	20.4	18.1	19.7	18.5	20.0	20.4
	3H	20.1	21.5	20.5	21.9	22.2	18.8	20.3	19.2	20.6	21.0
	4H	20.7	22.1	21.1	22.4	22.8	18.9	20.2	19.3	20.6	20.9
	6H	21.1	22.3	21.5	22.7	23.1	18.8	20.1	19.2	20.4	20.8
	8H	21.1	22.3	21.6	22.7	23.1	18.8	20.0	19.2	20.4	20.8
	12H	21.2	22.3	21.6	22.7	23.1	18.8	19.9	19.2	20.3	20.7
4H	2H	18.9	20.2	19.3	20.6	20.9	18.8	20.2	19.2	20.5	20.9
	3H	20.9	22.0	21.3	22.4	22.8	19.6	20.8	20.0	21.2	21.6
	4H	21.6	22.6	22.0	23.0	23.5	19.8	20.8	20.2	21.2	21.6
	6H	22.0	22.9	22.4	23.3	23.8	19.7	20.6	20.2	21.1	21.5
	8H	22.1	22.9	22.6	23.4	23.8	19.7	20.5	20.2	21.0	21.5
	12H	22.1	22.9	22.6	23.3	23.8	19.7	20.4	20.2	20.9	21.4
8H	4H	21.6	22.5	22.1	22.9	23.4	19.9	20.8	20.4	21.2	21.7
	6H	22.1	22.7	22.5	23.2	23.7	19.9	20.6	20.4	21.1	21.6
	8H	22.2	22.8	22.7	23.3	23.8	19.9	20.5	20.4	21.0	21.5
	12H	22.2	22.8	22.7	23.3	23.8	19.9	20.4	20.4	20.9	21.5
12H	4H	21.6	22.3	22.1	22.8	23.3	19.9	20.7	20.4	21.1	21.6
	6H	22.0	22.6	22.6	23.1	23.6	19.9	20.5	20.4	21.0	21.5
	8H	22.2	22.7	22.7	23.2	23.7	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 3883.631 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.)