



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-830-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-L106-830-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	10229
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
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	5548	5414	5399
55	5346	5228	5206
65	5092	4979	2662
75	4094	2275	436
85	1840	805	604

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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	3843.593	3843.593	3843.593	3843.593	3843.593
5	3797.933	3784.887	3773.472	3788.149	3804.456
10	3721.289	3708.244	3766.949	3776.734	3739.227
15	3634.862	3672.368	3631.600	3602.247	3602.247
20	3525.604	3607.139	3491.359	3473.421	3473.421
25	3383.732	3401.670	3344.595	3334.810	3334.810
30	3202.722	3175.000	3153.801	3142.386	3139.125
35	3010.298	2982.576	2958.115	2954.854	2948.331
40	2798.305	2752.645	2739.600	2734.707	2731.446
45	2553.698	2501.515	2491.731	2488.470	2485.208
50	2268.323	2230.817	2219.402	2216.140	2216.140
55	1995.994	1955.226	1951.965	1943.811	1943.811
60	1686.158	1655.175	1651.913	1645.390	1640.498
65	1400.783	1373.061	1369.800	1055.072	732.191
70	1069.748	1045.288	836.556	567.488	578.903
75	689.792	689.792	383.218	331.035	73.382
80	365.280	236.454	66.859	55.444	55.444
85	104.366	55.444	45.660	34.245	34.245
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1387.45	N.A.	13.60
0-30	2934.00	N.A.	28.70
0-40	4790.36	N.A.	46.80
0-60	8461.01	N.A.	82.70
0-80	10162.00	N.A.	99.30
0-90	10228.57	N.A.	100.00
10-90	9867.89	N.A.	96.50
20-40	3402.92	N.A.	33.30
20-50	5329.92	N.A.	52.10
40-70	4883.51	N.A.	47.70
60-80	1700.99	N.A.	16.60
70-80	488.12	N.A.	4.80
80-90	66.57	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	10228.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	360.68
10-20	1026.77
20-30	1546.56
30-40	1856.36
40-50	1927.00
50-60	1743.64
60-70	1212.87
70-80	488.12
80-90	66.57
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

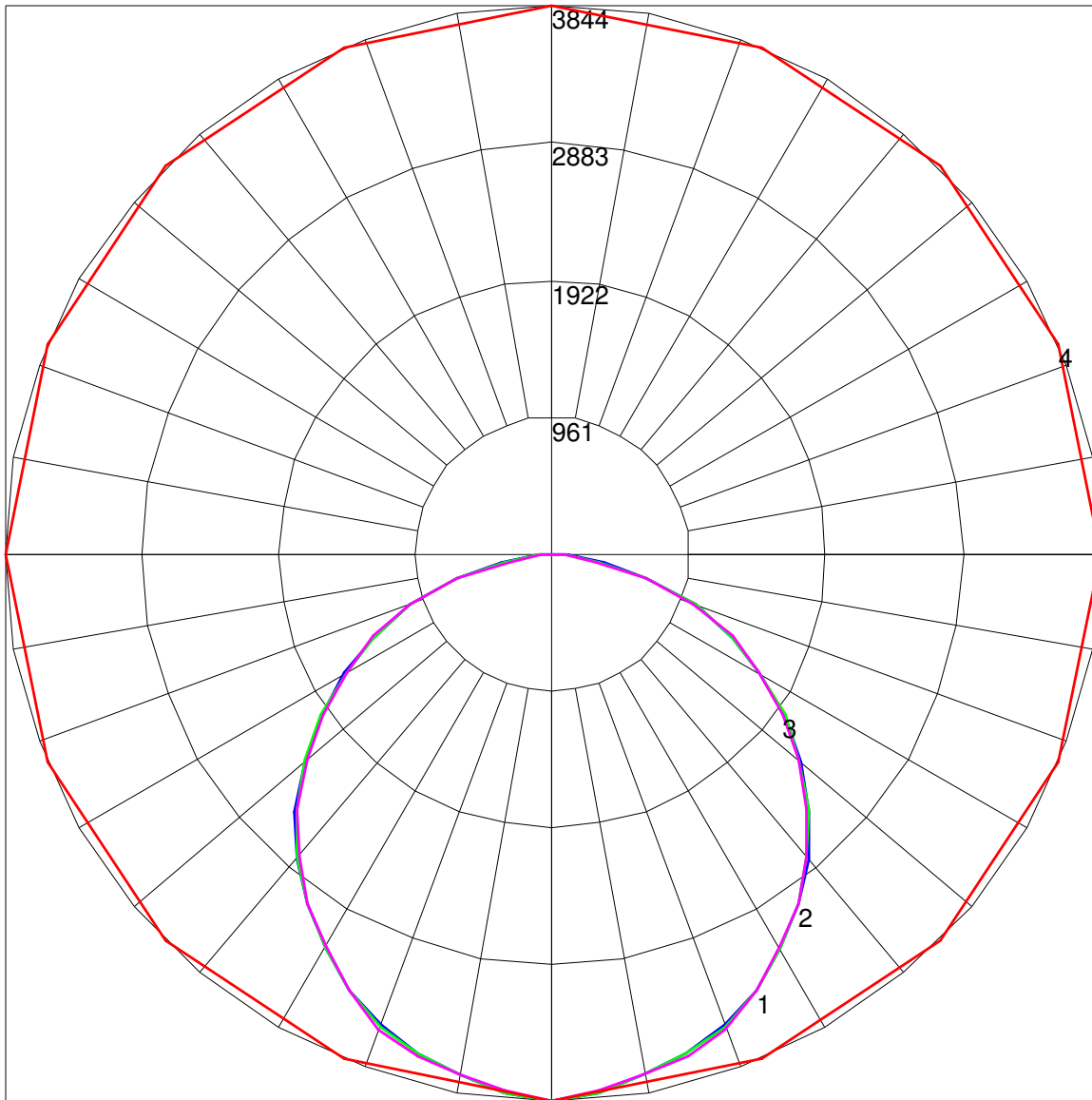
Reflectances

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	18.2	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 = 3843.593 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.)