



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-950-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-L106-950-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	9163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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	4970	4850	4837
55	4789	4684	4664
65	4562	4461	2384
75	3668	2038	390
85	1648	721	541

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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	3443.219	3443.219	3443.219	3443.219	3443.219
5	3402.315	3390.628	3380.402	3393.550	3408.158
10	3333.655	3321.968	3374.559	3383.324	3349.724
15	3256.230	3289.830	3253.308	3227.013	3227.013
20	3158.353	3231.396	3127.676	3111.606	3111.606
25	3031.260	3047.329	2996.199	2987.434	2987.434
30	2869.105	2844.271	2825.280	2815.054	2812.132
35	2696.725	2671.891	2649.978	2647.057	2641.213
40	2506.815	2465.911	2454.225	2449.842	2446.920
45	2287.688	2240.941	2232.176	2229.254	2226.332
50	2032.040	1998.440	1988.214	1985.292	1985.292
55	1788.078	1751.557	1748.635	1741.331	1741.331
60	1510.517	1482.761	1479.839	1473.996	1469.613
65	1254.868	1230.034	1227.112	945.169	655.921
70	958.316	936.404	749.415	508.375	518.601
75	617.939	617.939	343.299	296.552	65.738
80	327.230	211.823	59.895	49.669	49.669
85	93.494	49.669	40.904	30.678	30.678
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1242.92	N.A.	13.60
0-30	2628.38	N.A.	28.70
0-40	4291.37	N.A.	46.80
0-60	7579.65	N.A.	82.70
0-80	9103.46	N.A.	99.30
0-90	9163.09	N.A.	100.00
10-90	8839.98	N.A.	96.50
20-40	3048.45	N.A.	33.30
20-50	4774.72	N.A.	52.10
40-70	4374.81	N.A.	47.70
60-80	1523.8	N.A.	16.60
70-80	437.27	N.A.	4.80
80-90	59.64	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	9163.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	323.11
10-20	919.81
20-30	1385.46
30-40	1662.99
40-50	1726.27
50-60	1562.01
60-70	1086.53
70-80	437.27
80-90	59.64
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

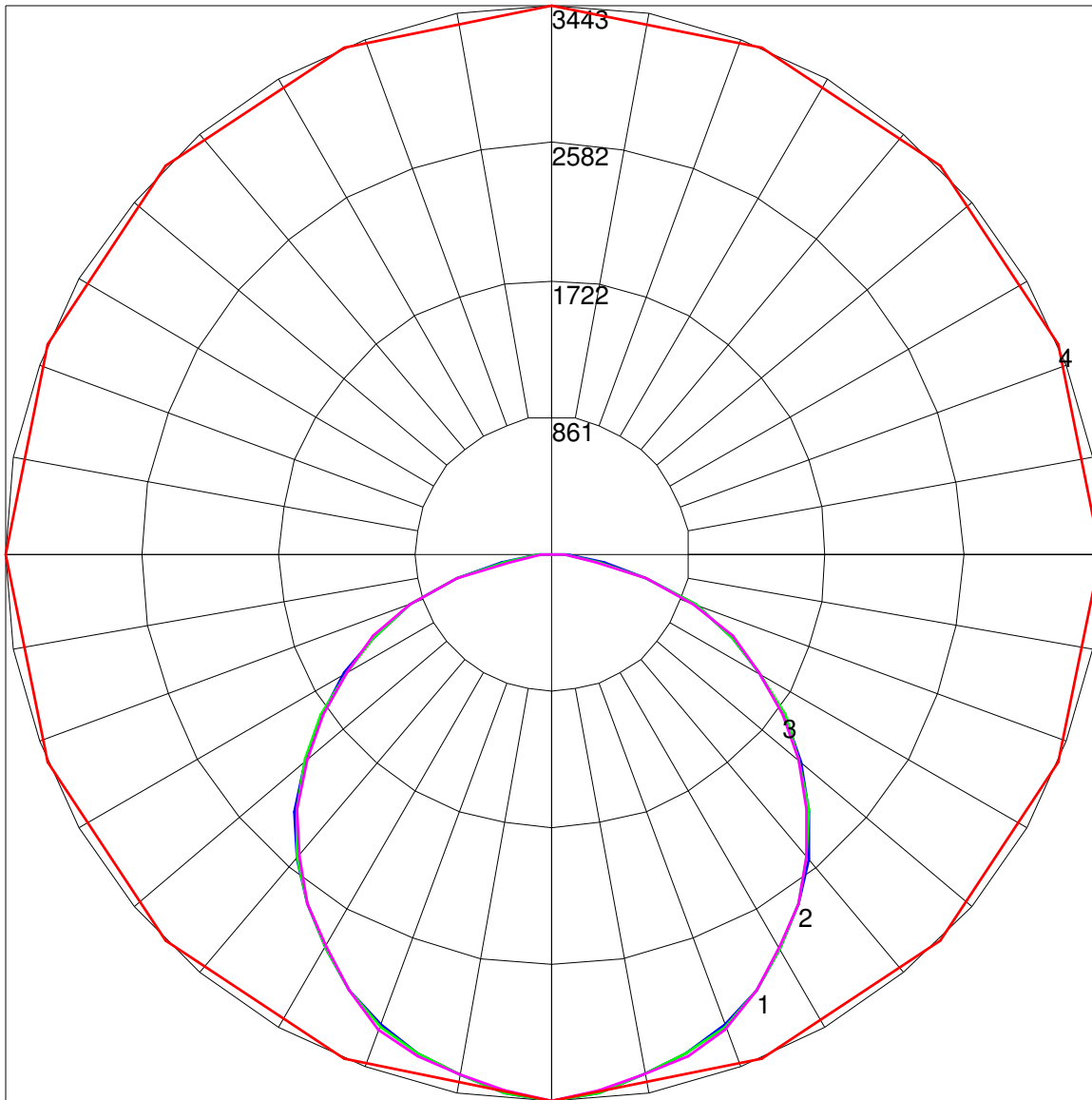
Reflectances

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	17.8	19.4	18.2	19.7	20.0	17.7	19.3	18.1	19.6	20.0
	3H	19.7	21.1	20.1	21.5	21.8	18.4	19.9	18.8	20.2	20.6
	4H	20.3	21.7	20.7	22.0	22.4	18.5	19.8	18.9	20.2	20.5
	6H	20.7	21.9	21.1	22.3	22.7	18.4	19.7	18.8	20.0	20.4
	8H	20.7	21.9	21.2	22.3	22.7	18.4	19.6	18.8	20.0	20.4
	12H	20.8	21.9	21.2	22.3	22.7	18.4	19.5	18.8	19.9	20.3
4H	2H	18.5	19.8	18.9	20.2	20.5	18.4	19.8	18.8	20.1	20.5
	3H	20.5	21.6	20.9	22.0	22.4	19.2	20.4	19.6	20.8	21.2
	4H	21.2	22.2	21.6	22.6	23.1	19.4	20.4	19.8	20.8	21.2
	6H	21.6	22.5	22.0	22.9	23.4	19.3	20.2	19.8	20.7	21.1
	8H	21.7	22.5	22.2	23.0	23.4	19.3	20.1	19.8	20.6	21.1
	12H	21.7	22.5	22.2	22.9	23.4	19.3	20.0	19.8	20.5	21.0
8H	4H	21.2	22.1	21.7	22.5	23.0	19.5	20.4	20.0	20.8	21.3
	6H	21.7	22.3	22.1	22.8	23.3	19.5	20.2	20.0	20.7	21.2
	8H	21.8	22.4	22.3	22.9	23.4	19.5	20.1	20.0	20.6	21.1
	12H	21.8	22.4	22.3	22.9	23.4	19.5	20.0	20.0	20.5	21.1
12H	4H	21.2	21.9	21.7	22.4	22.9	19.5	20.3	20.0	20.7	21.2
	6H	21.6	22.2	22.2	22.7	23.2	19.5	20.1	20.0	20.6	21.1
	8H	21.8	22.3	22.3	22.8	23.3	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 3443.219 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.)