



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-835-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-L65-835-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	6464
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	40.5
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	3506	3421	3412
55	3378	3304	3290
65	3218	3147	1682
75	2587	1437	275
85	1162	509	381

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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	2428.818	2428.818	2428.818	2428.818	2428.818
5	2399.965	2391.721	2384.508	2393.782	2404.087
10	2351.533	2343.289	2380.386	2386.569	2362.868
15	2296.918	2320.618	2294.857	2276.308	2276.308
20	2227.876	2279.400	2206.236	2194.901	2194.901
25	2138.225	2149.560	2113.494	2107.311	2107.311
30	2023.843	2006.325	1992.929	1985.716	1983.655
35	1902.248	1884.730	1869.273	1867.212	1863.090
40	1768.287	1739.433	1731.190	1728.098	1726.037
45	1613.716	1580.741	1574.558	1572.497	1570.436
50	1433.384	1409.683	1402.470	1400.409	1400.409
55	1261.295	1235.534	1233.473	1228.320	1228.320
60	1065.506	1045.927	1043.866	1039.744	1036.653
65	885.174	867.656	865.595	666.714	462.681
70	675.988	660.531	528.631	358.604	365.817
75	435.889	435.889	242.160	209.185	46.371
80	230.825	149.418	42.249	35.036	35.036
85	65.950	35.036	28.853	21.640	21.640
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	876.75	N.A.	13.60
0-30	1854.04	N.A.	28.70
0-40	3027.09	N.A.	46.80
0-60	5346.62	N.A.	82.70
0-80	6421.5	N.A.	99.30
0-90	6463.57	N.A.	100.00
10-90	6235.65	N.A.	96.50
20-40	2150.35	N.A.	33.30
20-50	3368.05	N.A.	52.10
40-70	3085.96	N.A.	47.70
60-80	1074.88	N.A.	16.60
70-80	308.45	N.A.	4.80
80-90	42.07	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	6463.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.92
10-20	648.83
20-30	977.29
30-40	1173.06
40-50	1217.7
50-60	1101.83
60-70	766.43
70-80	308.45
80-90	42.07
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

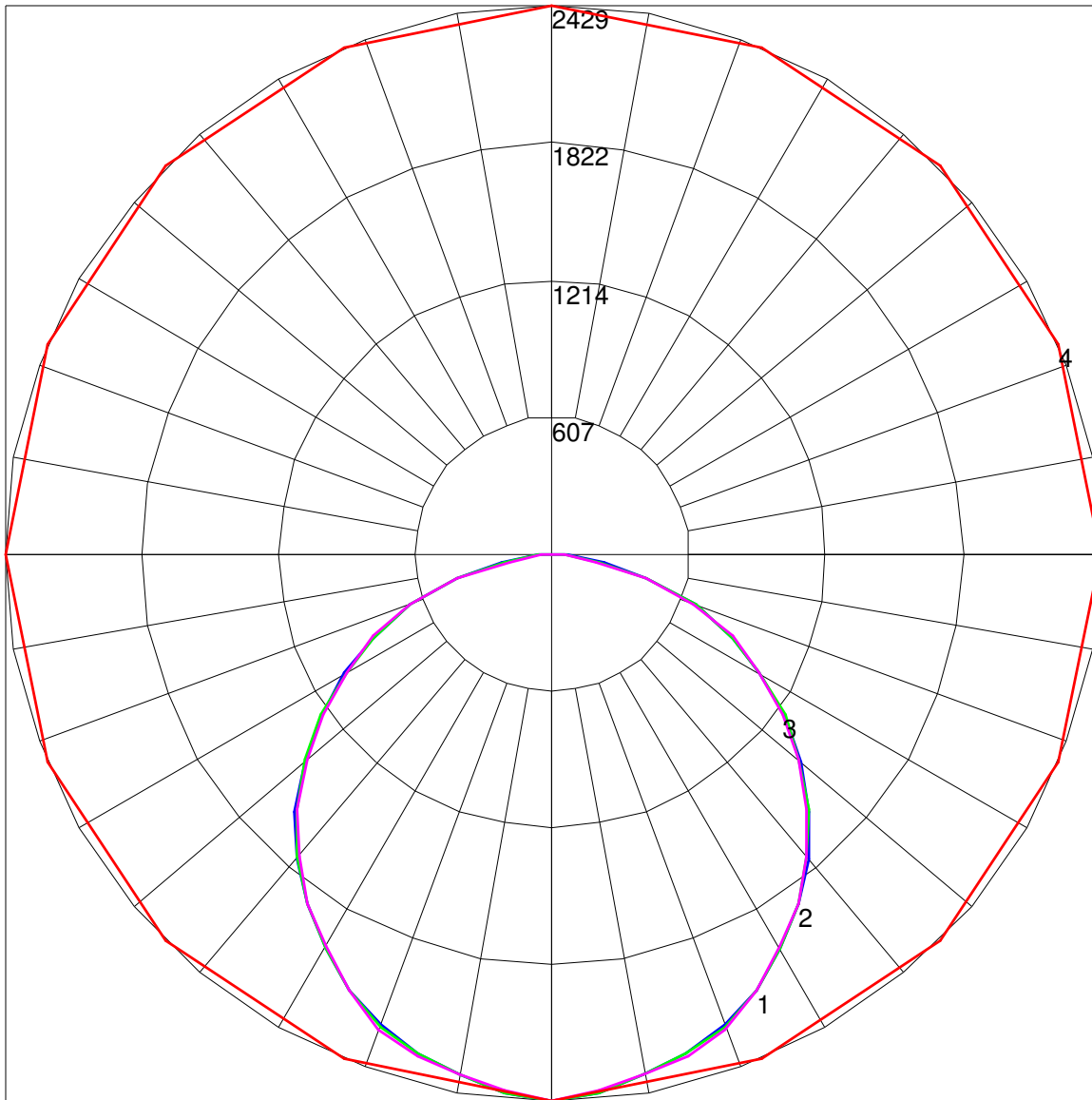
Reflectances

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	16.6	18.2	17.0	18.5	18.8	16.5	18.1	16.9	18.4	18.8
	3H	18.5	19.9	18.9	20.3	20.6	17.2	18.7	17.6	19.0	19.4
	4H	19.1	20.5	19.5	20.8	21.2	17.3	18.6	17.7	19.0	19.3
	6H	19.5	20.7	19.9	21.1	21.5	17.2	18.5	17.6	18.8	19.2
	8H	19.5	20.7	20.0	21.1	21.5	17.2	18.4	17.6	18.8	19.2
	12H	19.6	20.7	20.0	21.1	21.5	17.2	18.3	17.6	18.7	19.1
4H	2H	17.3	18.6	17.7	19.0	19.3	17.2	18.6	17.6	18.9	19.3
	3H	19.3	20.4	19.7	20.8	21.2	18.0	19.2	18.4	19.6	20.0
	4H	20.0	21.0	20.4	21.4	21.9	18.2	19.2	18.6	19.6	20.0
	6H	20.4	21.3	20.8	21.7	22.2	18.1	19.0	18.6	19.5	19.9
	8H	20.5	21.3	21.0	21.8	22.2	18.1	18.9	18.6	19.4	19.9
	12H	20.5	21.3	21.0	21.7	22.2	18.1	18.8	18.6	19.3	19.8
8H	4H	20.0	20.9	20.5	21.3	21.8	18.3	19.2	18.8	19.6	20.1
	6H	20.5	21.1	20.9	21.6	22.1	18.3	19.0	18.8	19.5	20.0
	8H	20.6	21.2	21.1	21.7	22.2	18.3	18.9	18.8	19.4	19.9
	12H	20.6	21.2	21.1	21.7	22.2	18.3	18.8	18.8	19.3	19.9
12H	4H	20.0	20.7	20.5	21.2	21.7	18.3	19.1	18.8	19.5	20.0
	6H	20.4	21.0	21.0	21.5	22.0	18.3	18.9	18.8	19.4	19.9
	8H	20.6	21.1	21.1	21.6	22.1	18.3	18.8	18.8	19.3	19.9

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 2428.818 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.)