



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-850-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-L65-850-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	6863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	169
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	3723	3632	3623
55	3587	3508	3493
65	3417	3341	1786
75	2747	1526	292
85	1234	540	405

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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	2579.055	2579.055	2579.055	2579.055	2579.055
5	2548.417	2539.664	2532.004	2541.852	2552.794
10	2496.989	2488.236	2527.627	2534.193	2509.026
15	2438.996	2464.163	2436.808	2417.112	2417.112
20	2365.684	2420.395	2342.706	2330.669	2330.669
25	2270.488	2282.524	2244.227	2237.661	2237.661
30	2149.030	2130.429	2116.204	2108.545	2106.356
35	2019.913	2001.312	1984.899	1982.710	1978.333
40	1877.666	1847.028	1838.274	1834.992	1832.803
45	1713.534	1678.520	1671.954	1669.766	1667.578
50	1522.047	1496.881	1489.221	1487.033	1487.033
55	1339.314	1311.959	1309.771	1304.299	1304.299
60	1131.414	1110.624	1108.436	1104.059	1100.776
65	939.927	921.326	919.137	707.955	491.301
70	717.802	701.389	561.330	380.785	388.445
75	462.851	462.851	257.140	222.125	49.239
80	245.103	158.661	44.863	37.203	37.203
85	70.030	37.203	30.638	22.978	22.978
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	930.98	N.A.	13.60
0-30	1968.72	N.A.	28.70
0-40	3214.34	N.A.	46.80
0-60	5677.34	N.A.	82.70
0-80	6818.71	N.A.	99.30
0-90	6863.38	N.A.	100.00
10-90	6621.36	N.A.	96.50
20-40	2283.36	N.A.	33.30
20-50	3576.38	N.A.	52.10
40-70	3276.84	N.A.	47.70
60-80	1141.37	N.A.	16.60
70-80	327.53	N.A.	4.80
80-90	44.67	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	6863.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	242.02
10-20	688.96
20-30	1037.74
30-40	1245.62
40-50	1293.02
50-60	1169.98
60-70	813.84
70-80	327.53
80-90	44.67
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	42	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

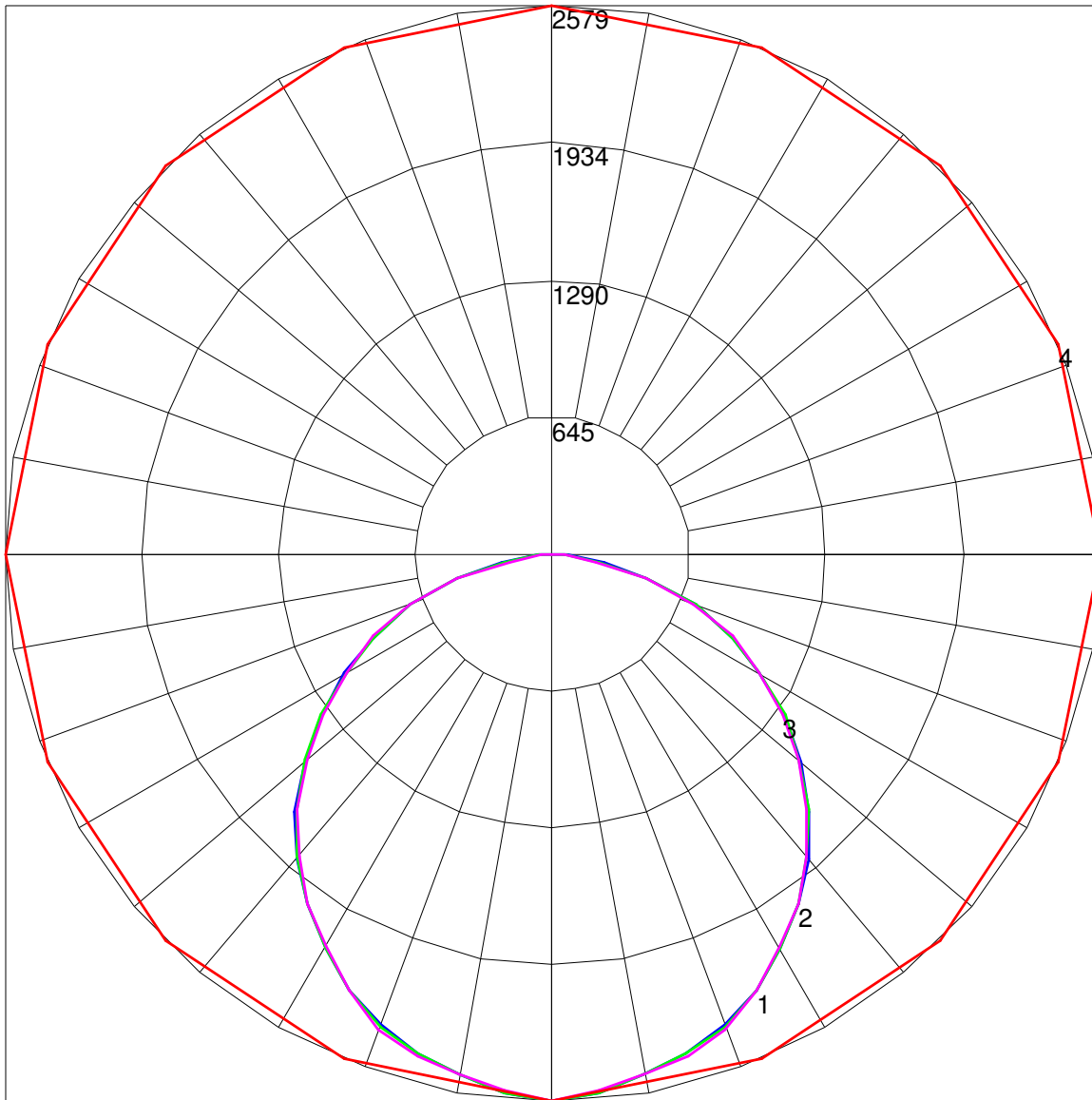
Reflectances

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	16.8	18.4	17.2	18.7	19.0	16.7	18.3	17.1	18.6	19.0
	3H	18.7	20.1	19.1	20.5	20.8	17.4	18.9	17.8	19.2	19.6
	4H	19.3	20.7	19.7	21.0	21.4	17.5	18.8	17.9	19.2	19.5
	6H	19.7	20.9	20.1	21.3	21.7	17.4	18.7	17.8	19.0	19.4
	8H	19.7	20.9	20.2	21.3	21.7	17.4	18.6	17.8	19.0	19.4
	12H	19.8	20.9	20.2	21.3	21.7	17.4	18.5	17.8	18.9	19.3
4H	2H	17.5	18.8	17.9	19.2	19.5	17.4	18.8	17.8	19.1	19.5
	3H	19.5	20.6	19.9	21.0	21.4	18.2	19.4	18.6	19.8	20.2
	4H	20.2	21.2	20.6	21.6	22.1	18.4	19.4	18.8	19.8	20.2
	6H	20.6	21.5	21.0	21.9	22.4	18.3	19.2	18.8	19.7	20.1
	8H	20.7	21.5	21.2	22.0	22.4	18.3	19.1	18.8	19.6	20.1
	12H	20.7	21.5	21.2	21.9	22.4	18.3	19.0	18.8	19.5	20.0
8H	4H	20.2	21.1	20.7	21.5	22.0	18.5	19.4	19.0	19.8	20.3
	6H	20.7	21.3	21.1	21.8	22.3	18.5	19.2	19.0	19.7	20.2
	8H	20.8	21.4	21.3	21.9	22.4	18.5	19.1	19.0	19.6	20.1
	12H	20.8	21.4	21.3	21.9	22.4	18.5	19.0	19.0	19.5	20.1
12H	4H	20.2	20.9	20.7	21.4	21.9	18.5	19.3	19.0	19.7	20.2
	6H	20.6	21.2	21.2	21.7	22.2	18.5	19.1	19.0	19.6	20.1
	8H	20.8	21.3	21.3	21.8	22.3	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 2579.055 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.)