



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L154-840-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-L154-840-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	15412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	100.2
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	8360	8157	8136
55	8055	7878	7845
65	7672	7503	4010
75	6169	3427	656
85	2772	1213	910

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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	5791.410	5791.410	5791.410	5791.410	5791.410
5	5722.611	5702.954	5685.755	5707.869	5732.440
10	5607.127	5587.470	5675.926	5690.669	5634.155
15	5476.900	5533.414	5471.986	5427.758	5427.758
20	5312.274	5435.129	5260.674	5233.646	5233.646
25	5098.505	5125.533	5039.534	5024.792	5024.792
30	4825.766	4783.995	4752.052	4734.853	4729.938
35	4535.827	4494.056	4457.199	4452.285	4442.456
40	4216.402	4147.603	4127.946	4120.575	4115.661
45	3847.836	3769.208	3754.465	3749.551	3744.637
50	3417.841	3361.328	3344.128	3339.214	3339.214
55	3007.504	2946.076	2941.162	2928.876	2928.876
60	2540.653	2493.968	2489.053	2479.225	2471.854
65	2110.658	2068.887	2063.973	1589.751	1103.243
70	1611.865	1575.008	1260.498	855.075	872.274
75	1039.358	1039.358	577.421	498.794	110.570
80	550.393	356.281	100.742	83.542	83.542
85	157.255	83.542	68.799	51.599	51.599
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2090.56	N.A.	13.60
0-30	4420.87	N.A.	28.70
0-40	7217.97	N.A.	46.80
0-60	12748.79	N.A.	82.70
0-80	15311.79	N.A.	99.30
0-90	15412.1	N.A.	100.00
10-90	14868.64	N.A.	96.50
20-40	5127.41	N.A.	33.30
20-50	8030.96	N.A.	52.10
40-70	7358.33	N.A.	47.70
60-80	2563.00	N.A.	16.60
70-80	735.49	N.A.	4.80
80-90	100.31	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	15412.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	543.46
10-20	1547.1
20-30	2330.31
30-40	2797.1
40-50	2903.55
50-60	2627.26
60-70	1827.52
70-80	735.49
80-90	100.31
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

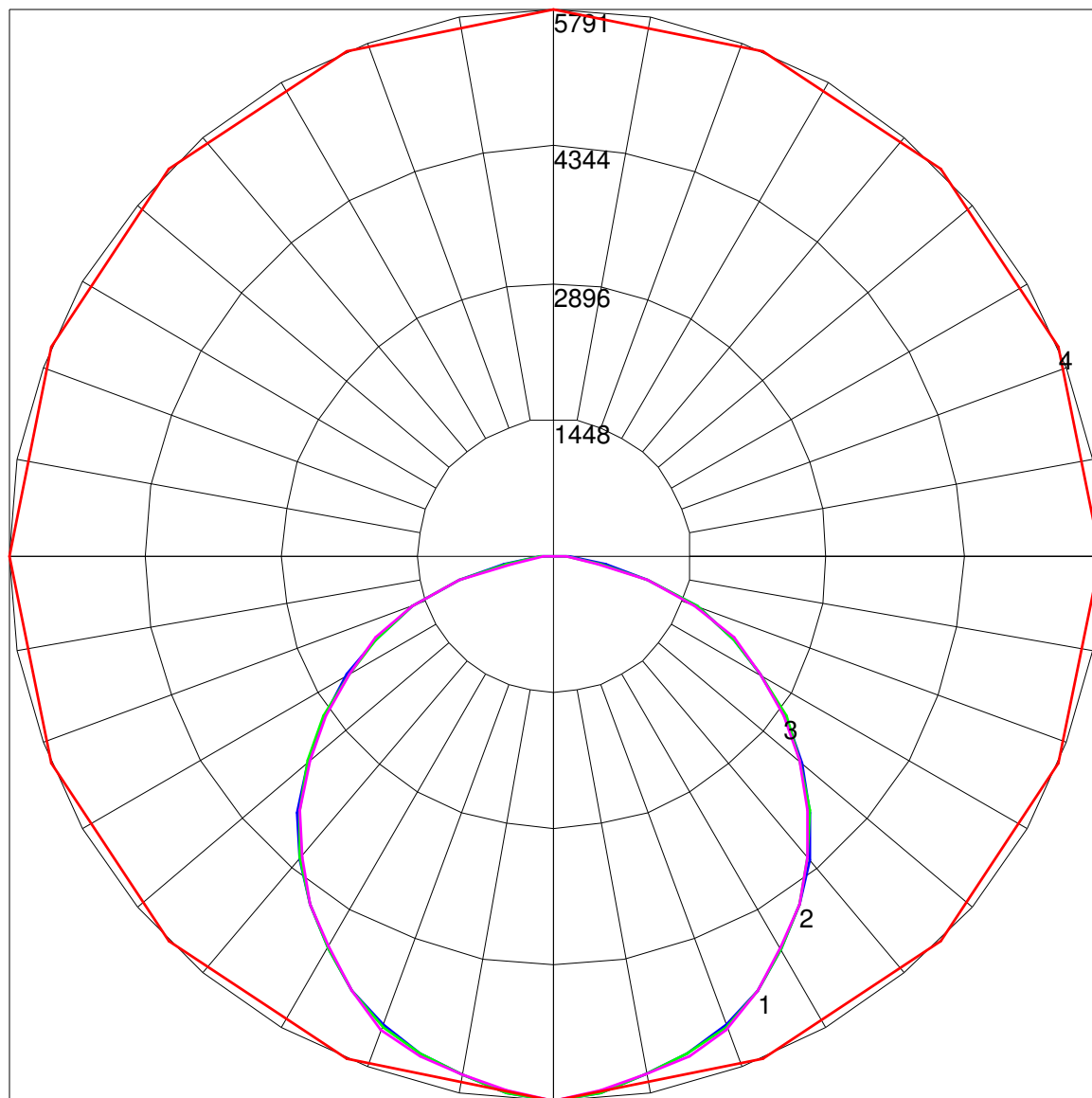
Reflectances

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	19.6	21.2	20.0	21.5	21.8	19.5	21.1	19.9	21.4	21.8
	3H	21.5	22.9	21.9	23.3	23.6	20.2	21.7	20.6	22.0	22.4
	4H	22.1	23.5	22.5	23.8	24.2	20.3	21.6	20.7	22.0	22.3
	6H	22.5	23.7	22.9	24.1	24.5	20.2	21.5	20.6	21.8	22.2
	8H	22.5	23.7	23.0	24.1	24.5	20.2	21.4	20.6	21.8	22.2
	12H	22.6	23.7	23.0	24.1	24.5	20.2	21.3	20.6	21.7	22.1
4H	2H	20.3	21.6	20.7	22.0	22.3	20.2	21.6	20.6	21.9	22.3
	3H	22.3	23.4	22.7	23.8	24.2	21.0	22.2	21.4	22.6	23.0
	4H	23.0	24.0	23.4	24.4	24.9	21.2	22.2	21.6	22.6	23.0
	6H	23.4	24.3	23.8	24.7	25.2	21.1	22.0	21.6	22.5	22.9
	8H	23.5	24.3	24.0	24.8	25.2	21.1	21.9	21.6	22.4	22.9
	12H	23.5	24.3	24.0	24.7	25.2	21.1	21.8	21.6	22.3	22.8
8H	4H	23.0	23.9	23.5	24.3	24.8	21.3	22.2	21.8	22.6	23.1
	6H	23.5	24.1	23.9	24.6	25.1	21.3	22.0	21.8	22.5	23.0
	8H	23.6	24.2	24.1	24.7	25.2	21.3	21.9	21.8	22.4	22.9
	12H	23.6	24.2	24.1	24.7	25.2	21.3	21.8	21.8	22.3	22.9
12H	4H	23.0	23.7	23.5	24.2	24.7	21.3	22.1	21.8	22.5	23.0
	6H	23.4	24.0	24.0	24.5	25.0	21.3	21.9	21.8	22.4	22.9
	8H	23.6	24.1	24.1	24.6	25.1	21.3	21.8	21.8	22.3	22.9

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 5791.41 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.)