



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-927-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-L106-927-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	8204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	4450	4342	4331
55	4288	4193	4176
65	4084	3994	2135
75	3284	1824	349
85	1476	646	484

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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	3082.883	3082.883	3082.883	3082.883	3082.883
5	3046.260	3035.796	3026.640	3038.412	3051.492
10	2984.785	2974.321	3021.408	3029.256	2999.173
15	2915.463	2945.546	2912.847	2889.303	2889.303
20	2827.829	2893.227	2800.362	2785.974	2785.974
25	2714.036	2728.423	2682.644	2674.797	2674.797
30	2568.851	2546.616	2529.612	2520.456	2517.840
35	2414.511	2392.275	2372.656	2370.040	2364.808
40	2244.475	2207.852	2197.388	2193.464	2190.848
45	2048.279	2006.424	1998.577	1995.961	1993.345
50	1819.385	1789.302	1780.146	1777.530	1777.530
55	1600.954	1568.255	1565.639	1559.099	1559.099
60	1352.440	1327.589	1324.973	1319.741	1315.817
65	1123.545	1101.310	1098.694	846.256	587.278
70	858.028	838.408	670.988	455.173	464.329
75	553.271	553.271	307.373	265.518	58.859
80	292.985	189.656	53.627	44.471	44.471
85	83.710	44.471	36.623	27.467	27.467
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1112.85	N.A.	13.60
0-30	2353.32	N.A.	28.70
0-40	3842.27	N.A.	46.80
0-60	6786.43	N.A.	82.70
0-80	8150.77	N.A.	99.30
0-90	8204.17	N.A.	100.00
10-90	7914.87	N.A.	96.50
20-40	2729.42	N.A.	33.30
20-50	4275.04	N.A.	52.10
40-70	3916.99	N.A.	47.70
60-80	1364.34	N.A.	16.60
70-80	391.51	N.A.	4.80
80-90	53.40	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	8204.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	289.30
10-20	823.55
20-30	1240.47
30-40	1488.95
40-50	1545.62
50-60	1398.54
60-70	972.82
70-80	391.51
80-90	53.40
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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

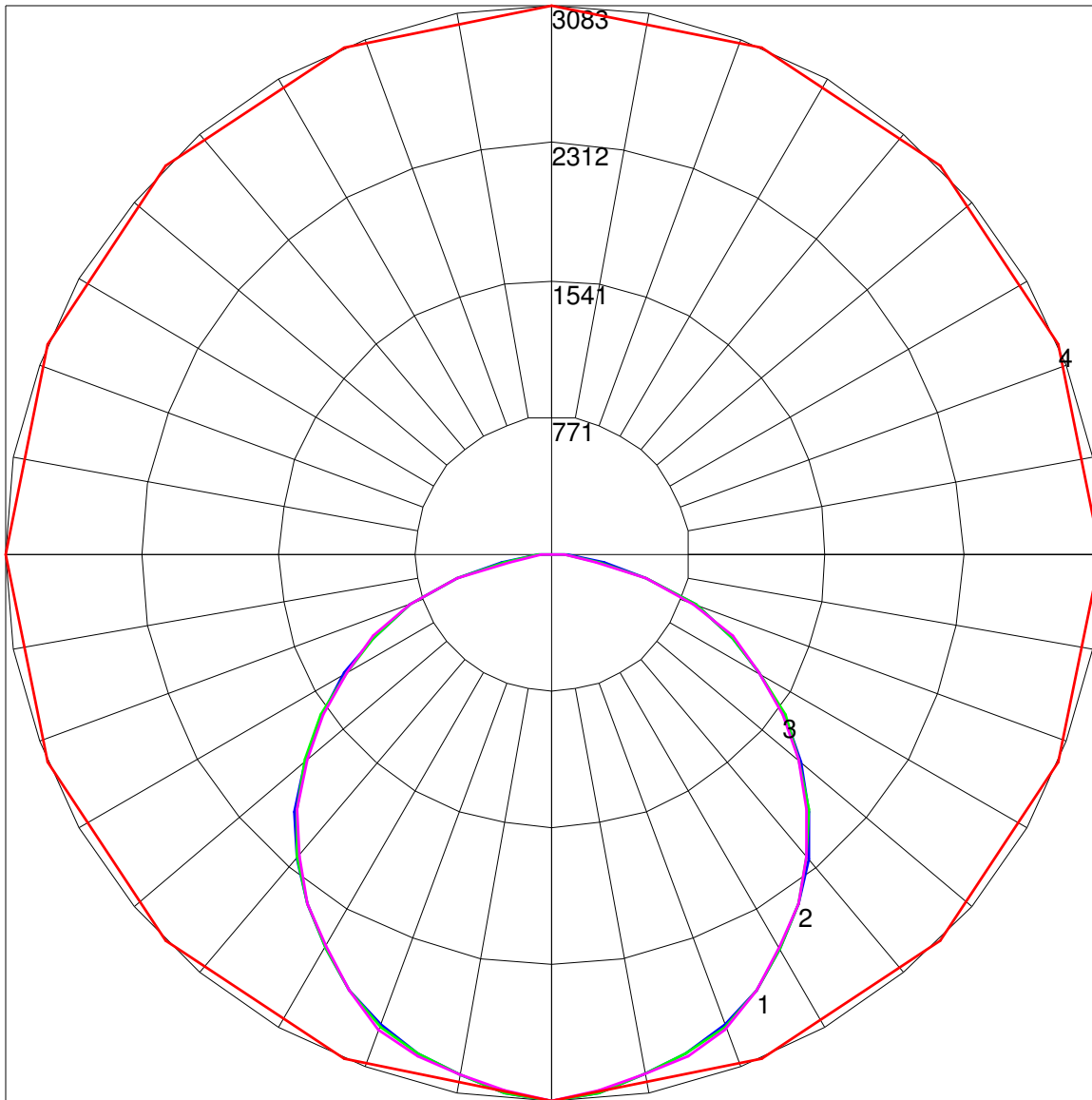
Reflectances

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	17.4	19.0	17.8	19.3	19.6	17.3	18.9	17.7	19.2	19.6
	3H	19.3	20.7	19.7	21.1	21.4	18.0	19.5	18.4	19.8	20.2
	4H	19.9	21.3	20.3	21.6	22.0	18.1	19.4	18.5	19.8	20.1
	6H	20.3	21.5	20.7	21.9	22.3	18.0	19.3	18.4	19.6	20.0
	8H	20.3	21.5	20.8	21.9	22.3	18.0	19.2	18.4	19.6	20.0
	12H	20.4	21.5	20.8	21.9	22.3	18.0	19.1	18.4	19.5	19.9
4H	2H	18.1	19.4	18.5	19.8	20.1	18.0	19.4	18.4	19.7	20.1
	3H	20.1	21.2	20.5	21.6	22.0	18.8	20.0	19.2	20.4	20.8
	4H	20.8	21.8	21.2	22.2	22.7	19.0	20.0	19.4	20.4	20.8
	6H	21.2	22.1	21.6	22.5	23.0	18.9	19.8	19.4	20.3	20.7
	8H	21.3	22.1	21.8	22.6	23.0	18.9	19.7	19.4	20.2	20.7
	12H	21.3	22.1	21.8	22.5	23.0	18.9	19.6	19.4	20.1	20.6
8H	4H	20.8	21.7	21.3	22.1	22.6	19.1	20.0	19.6	20.4	20.9
	6H	21.3	21.9	21.7	22.4	22.9	19.1	19.8	19.6	20.3	20.8
	8H	21.4	22.0	21.9	22.5	23.0	19.1	19.7	19.6	20.2	20.7
	12H	21.4	22.0	21.9	22.5	23.0	19.1	19.6	19.6	20.1	20.7
12H	4H	20.8	21.5	21.3	22.0	22.5	19.1	19.9	19.6	20.3	20.8
	6H	21.2	21.8	21.8	22.3	22.8	19.1	19.7	19.6	20.2	20.7
	8H	21.4	21.9	21.9	22.4	22.9	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 3082.883 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.)