



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-827-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-L106-827-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	10015
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
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	5433	5301	5287
55	5235	5119	5098
65	4986	4876	2606
75	4009	2227	426
85	1801	788	591

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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	3763.518	3763.518	3763.518	3763.518	3763.518
5	3718.810	3706.036	3694.859	3709.229	3725.197
10	3643.763	3630.989	3688.472	3698.052	3661.327
15	3559.136	3595.861	3555.942	3527.201	3527.201
20	3452.154	3531.991	3418.622	3401.058	3401.058
25	3313.237	3330.802	3274.916	3265.335	3265.335
30	3135.999	3108.855	3088.097	3076.920	3073.726
35	2947.584	2920.439	2896.488	2893.295	2886.908
40	2740.007	2695.299	2682.525	2677.735	2674.541
45	2500.496	2449.401	2439.820	2436.627	2433.433
50	2221.067	2184.342	2173.164	2169.971	2169.971
55	1954.411	1914.492	1911.299	1903.315	1903.315
60	1651.030	1620.692	1617.499	1611.112	1606.321
65	1371.600	1344.456	1341.262	1033.091	716.937
70	1047.462	1023.511	819.128	555.666	566.843
75	675.421	675.421	375.234	324.138	71.853
80	357.670	231.527	65.466	54.289	54.289
85	102.191	54.289	44.709	33.532	33.532
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1358.54	N.A.	13.60
0-30	2872.88	N.A.	28.70
0-40	4690.56	N.A.	46.80
0-60	8284.74	N.A.	82.70
0-80	9950.29	N.A.	99.30
0-90	10015.47	N.A.	100.00
10-90	9662.31	N.A.	96.50
20-40	3332.02	N.A.	33.30
20-50	5218.88	N.A.	52.10
40-70	4781.77	N.A.	47.70
60-80	1665.55	N.A.	16.60
70-80	477.95	N.A.	4.80
80-90	65.19	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	10015.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	353.17
10-20	1005.37
20-30	1514.34
30-40	1817.68
40-50	1886.86
50-60	1707.31
60-70	1187.6
70-80	477.95
80-90	65.19
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

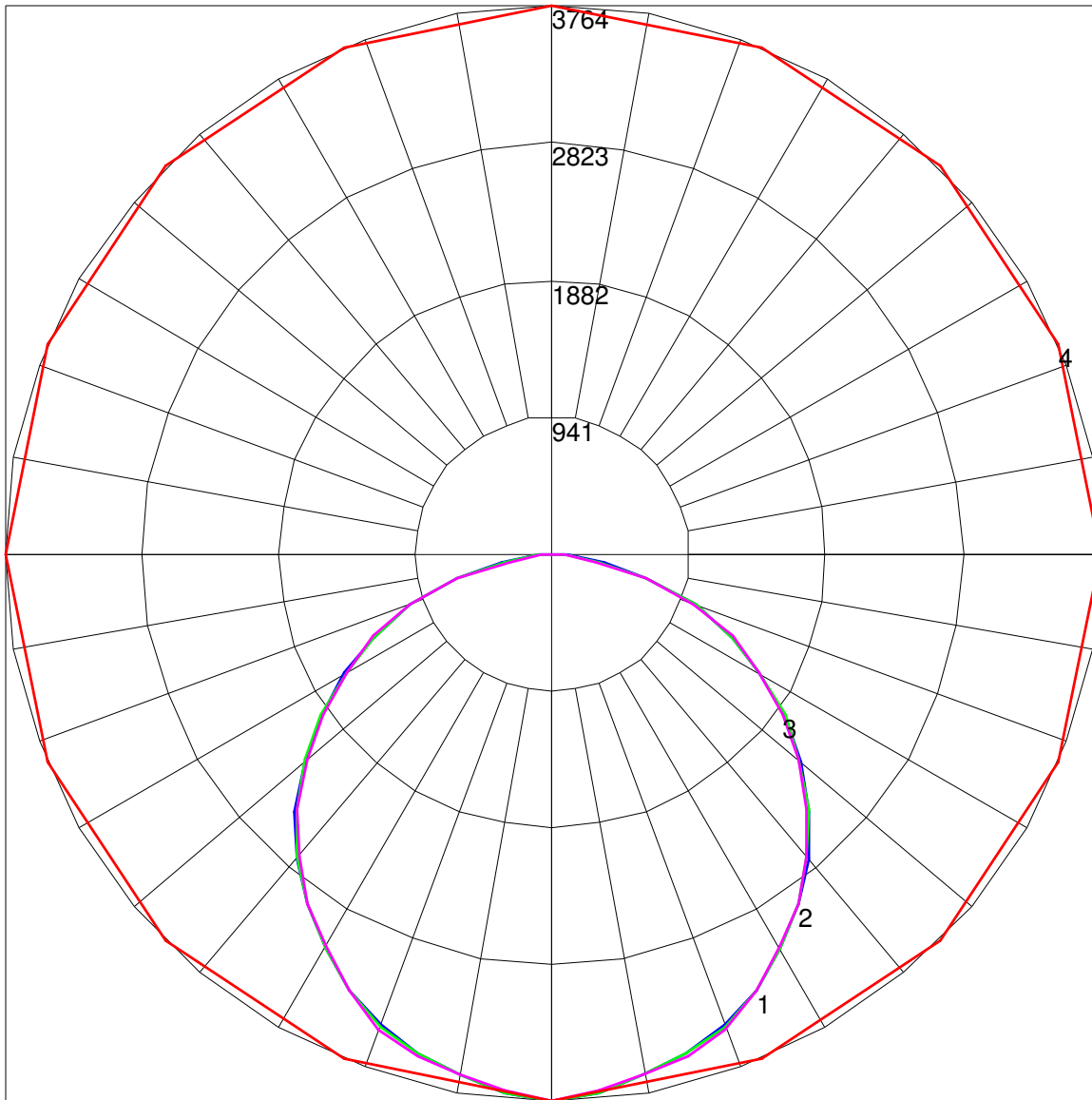
Reflectances

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	18.1	19.7	18.5	20.0	20.3	18.0	19.6	18.4	19.9	20.3
	3H	20.0	21.4	20.4	21.8	22.1	18.7	20.2	19.1	20.5	20.9
	4H	20.6	22.0	21.0	22.3	22.7	18.8	20.1	19.2	20.5	20.8
	6H	21.0	22.2	21.4	22.6	23.0	18.7	20.0	19.1	20.3	20.7
	8H	21.0	22.2	21.5	22.6	23.0	18.7	19.9	19.1	20.3	20.7
	12H	21.1	22.2	21.5	22.6	23.0	18.7	19.8	19.1	20.2	20.6
4H	2H	18.8	20.1	19.2	20.5	20.8	18.7	20.1	19.1	20.4	20.8
	3H	20.8	21.9	21.2	22.3	22.7	19.5	20.7	19.9	21.1	21.5
	4H	21.5	22.5	21.9	22.9	23.4	19.7	20.7	20.1	21.1	21.5
	6H	21.9	22.8	22.3	23.2	23.7	19.6	20.5	20.1	21.0	21.4
	8H	22.0	22.8	22.5	23.3	23.7	19.6	20.4	20.1	20.9	21.4
	12H	22.0	22.8	22.5	23.2	23.7	19.6	20.3	20.1	20.8	21.3
8H	4H	21.5	22.4	22.0	22.8	23.3	19.8	20.7	20.3	21.1	21.6
	6H	22.0	22.6	22.4	23.1	23.6	19.8	20.5	20.3	21.0	21.5
	8H	22.1	22.7	22.6	23.2	23.7	19.8	20.4	20.3	20.9	21.4
	12H	22.1	22.7	22.6	23.2	23.7	19.8	20.3	20.3	20.8	21.4
12H	4H	21.5	22.2	22.0	22.7	23.2	19.8	20.6	20.3	21.0	21.5
	6H	21.9	22.5	22.5	23.0	23.5	19.8	20.4	20.3	20.9	21.4
	8H	22.1	22.6	22.6	23.1	23.6	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 3763.518 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.)