



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-840-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-L65-840-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	6663
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
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	3614	3527	3517
55	3483	3406	3392
65	3317	3244	1734
75	2667	1482	284
85	1198	524	393

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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	2503.938	2503.938	2503.938	2503.938	2503.938
5	2474.192	2465.693	2458.257	2467.818	2478.441
10	2424.262	2415.763	2454.008	2460.382	2435.948
15	2367.958	2392.392	2365.833	2346.711	2346.711
20	2296.781	2349.898	2274.472	2262.786	2262.786
25	2204.358	2216.043	2178.861	2172.487	2172.487
30	2086.438	2068.378	2054.567	2047.131	2045.006
35	1961.081	1943.022	1927.087	1924.962	1920.712
40	1822.977	1793.232	1784.733	1781.546	1779.421
45	1663.626	1629.631	1623.257	1621.132	1619.008
50	1477.716	1453.282	1445.846	1443.721	1443.721
55	1300.305	1273.747	1271.622	1266.310	1266.310
60	1098.461	1078.276	1076.151	1071.902	1068.715
65	912.551	894.491	892.366	687.335	476.991
70	696.896	680.961	544.981	369.695	377.131
75	449.370	449.370	249.650	215.655	47.805
80	237.964	154.039	43.556	36.120	36.120
85	67.990	36.120	29.746	22.309	22.309
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	903.86	N.A.	13.60
0-30	1911.38	N.A.	28.70
0-40	3120.72	N.A.	46.80
0-60	5511.99	N.A.	82.70
0-80	6620.11	N.A.	99.30
0-90	6663.48	N.A.	100.00
10-90	6428.51	N.A.	96.50
20-40	2216.86	N.A.	33.30
20-50	3472.22	N.A.	52.10
40-70	3181.4	N.A.	47.70
60-80	1108.12	N.A.	16.60
70-80	317.99	N.A.	4.80
80-90	43.37	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	6663.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	234.97
10-20	668.89
20-30	1007.52
30-40	1209.34
40-50	1255.36
50-60	1135.91
60-70	790.13
70-80	317.99
80-90	43.37
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

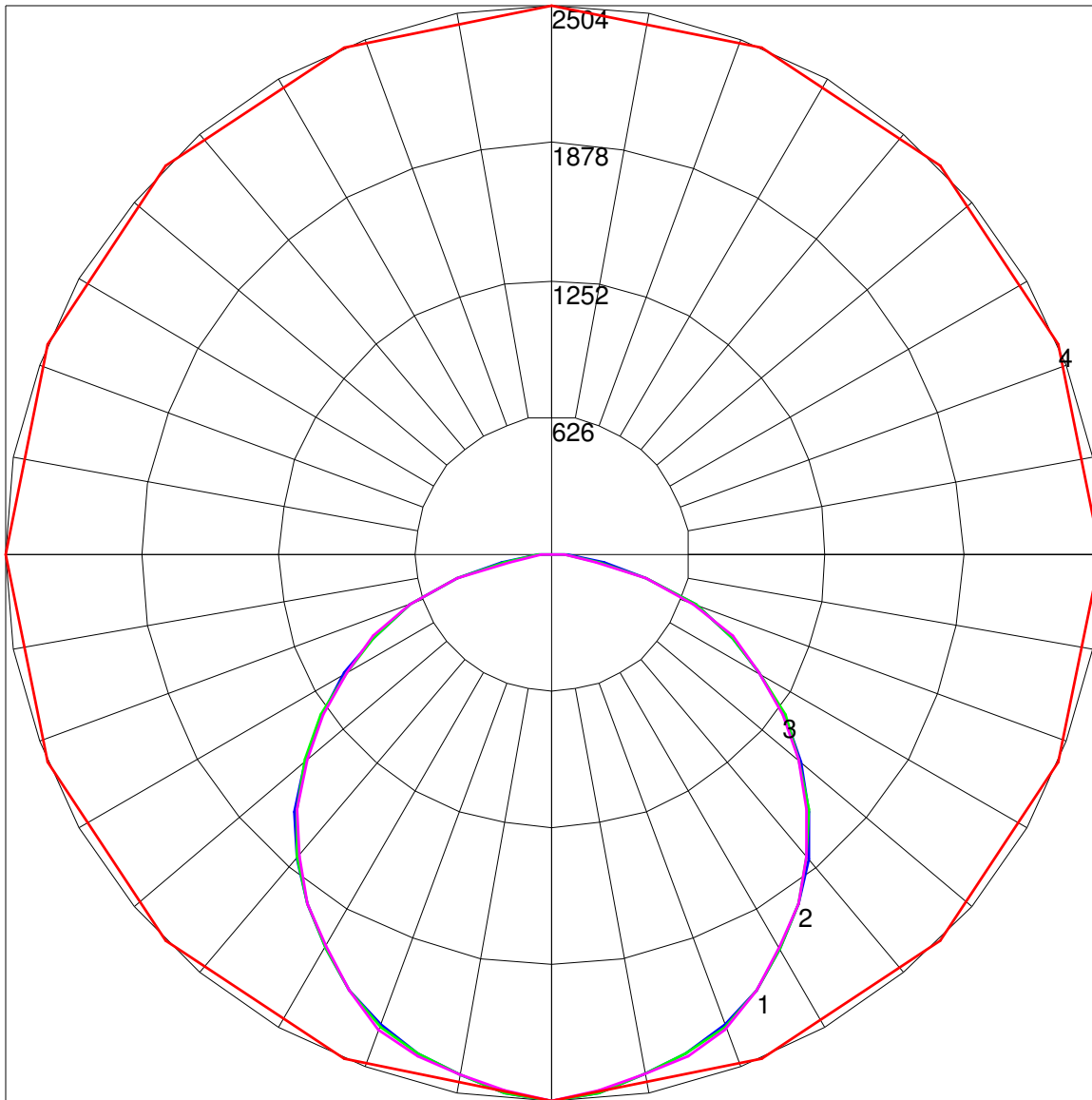
Reflectances

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	16.7	18.3	17.1	18.6	18.9	16.6	18.2	17.0	18.5	18.9
	3H	18.6	20.0	19.0	20.4	20.7	17.3	18.8	17.7	19.1	19.5
	4H	19.2	20.6	19.6	20.9	21.3	17.4	18.7	17.8	19.1	19.4
	6H	19.6	20.8	20.0	21.2	21.6	17.3	18.6	17.7	18.9	19.3
	8H	19.6	20.8	20.1	21.2	21.6	17.3	18.5	17.7	18.9	19.3
	12H	19.7	20.8	20.1	21.2	21.6	17.3	18.4	17.7	18.8	19.2
4H	2H	17.4	18.7	17.8	19.1	19.4	17.3	18.7	17.7	19.0	19.4
	3H	19.4	20.5	19.8	20.9	21.3	18.1	19.3	18.5	19.7	20.1
	4H	20.1	21.1	20.5	21.5	22.0	18.3	19.3	18.7	19.7	20.1
	6H	20.5	21.4	20.9	21.8	22.3	18.2	19.1	18.7	19.6	20.0
	8H	20.6	21.4	21.1	21.9	22.3	18.2	19.0	18.7	19.5	20.0
	12H	20.6	21.4	21.1	21.8	22.3	18.2	18.9	18.7	19.4	19.9
8H	4H	20.1	21.0	20.6	21.4	21.9	18.4	19.3	18.9	19.7	20.2
	6H	20.6	21.2	21.0	21.7	22.2	18.4	19.1	18.9	19.6	20.1
	8H	20.7	21.3	21.2	21.8	22.3	18.4	19.0	18.9	19.5	20.0
	12H	20.7	21.3	21.2	21.8	22.3	18.4	18.9	18.9	19.4	20.0
12H	4H	20.1	20.8	20.6	21.3	21.8	18.4	19.2	18.9	19.6	20.1
	6H	20.5	21.1	21.1	21.6	22.1	18.4	19.0	18.9	19.5	20.0
	8H	20.7	21.2	21.2	21.7	22.2	18.4	18.9	18.9	19.4	20.0

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 2503.938 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.)