



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-935-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-L65-935-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	5331
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	2892	2821	2814
55	2786	2725	2713
65	2654	2595	1387
75	2134	1185	227
85	959	419	315

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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	2003.150	2003.150	2003.150	2003.150	2003.150
5	1979.353	1972.554	1966.605	1974.254	1982.753
10	1939.409	1932.610	1963.206	1968.305	1948.758
15	1894.366	1913.913	1892.666	1877.368	1877.368
20	1837.424	1879.918	1819.577	1810.228	1810.228
25	1763.485	1772.834	1743.089	1737.989	1737.989
30	1669.150	1654.702	1643.653	1637.704	1636.005
35	1568.865	1554.417	1541.669	1539.969	1536.570
40	1458.381	1434.585	1427.786	1425.236	1423.536
45	1330.900	1303.704	1298.605	1296.905	1295.206
50	1182.173	1162.626	1156.677	1154.977	1154.977
55	1040.244	1018.997	1017.297	1013.048	1013.048
60	878.768	862.621	860.921	857.521	854.972
65	730.041	715.593	713.893	549.868	381.593
70	557.516	544.768	435.985	295.756	301.705
75	359.496	359.496	199.720	172.524	38.244
80	190.371	123.232	34.845	28.896	28.896
85	54.392	28.896	23.796	17.847	17.847
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	723.09	N.A.	13.60
0-30	1529.1	N.A.	28.70
0-40	2496.57	N.A.	46.80
0-60	4409.59	N.A.	82.70
0-80	5296.09	N.A.	99.30
0-90	5330.78	N.A.	100.00
10-90	5142.81	N.A.	96.50
20-40	1773.48	N.A.	33.30
20-50	2777.77	N.A.	52.10
40-70	2545.12	N.A.	47.70
60-80	886.50	N.A.	16.60
70-80	254.39	N.A.	4.80
80-90	34.70	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	5330.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.97
10-20	535.12
20-30	806.01
30-40	967.47
40-50	1004.29
50-60	908.73
60-70	632.11
70-80	254.39
80-90	34.70
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	39	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

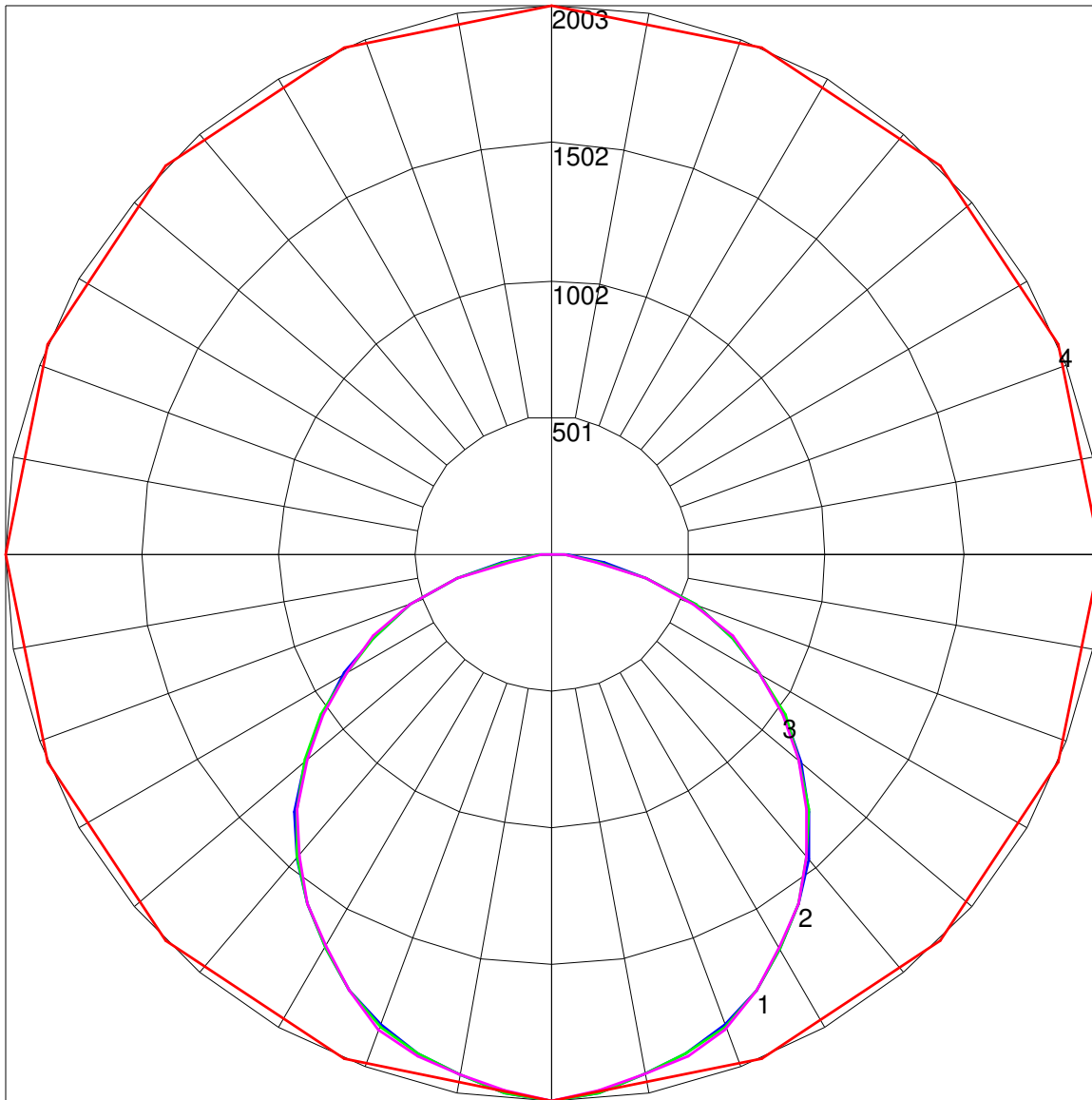
Reflectances

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	15.9	17.5	16.3	17.8	18.1	15.8	17.4	16.2	17.7	18.1
	3H	17.8	19.2	18.2	19.6	19.9	16.5	18.0	16.9	18.3	18.7
	4H	18.4	19.8	18.8	20.1	20.5	16.6	17.9	17.0	18.3	18.6
	6H	18.8	20.0	19.2	20.4	20.8	16.5	17.8	16.9	18.1	18.5
	8H	18.8	20.0	19.3	20.4	20.8	16.5	17.7	16.9	18.1	18.5
	12H	18.9	20.0	19.3	20.4	20.8	16.5	17.6	16.9	18.0	18.4
4H	2H	16.6	17.9	17.0	18.3	18.6	16.5	17.9	16.9	18.2	18.6
	3H	18.6	19.7	19.0	20.1	20.5	17.3	18.5	17.7	18.9	19.3
	4H	19.3	20.3	19.7	20.7	21.2	17.5	18.5	17.9	18.9	19.3
	6H	19.7	20.6	20.1	21.0	21.5	17.4	18.3	17.9	18.8	19.2
	8H	19.8	20.6	20.3	21.1	21.5	17.4	18.2	17.9	18.7	19.2
	12H	19.8	20.6	20.3	21.0	21.5	17.4	18.1	17.9	18.6	19.1
8H	4H	19.3	20.2	19.8	20.6	21.1	17.6	18.5	18.1	18.9	19.4
	6H	19.8	20.4	20.2	20.9	21.4	17.6	18.3	18.1	18.8	19.3
	8H	19.9	20.5	20.4	21.0	21.5	17.6	18.2	18.1	18.7	19.2
	12H	19.9	20.5	20.4	21.0	21.5	17.6	18.1	18.1	18.6	19.2
12H	4H	19.3	20.0	19.8	20.5	21.0	17.6	18.4	18.1	18.8	19.3
	6H	19.7	20.3	20.3	20.8	21.3	17.6	18.2	18.1	18.7	19.2
	8H	19.9	20.4	20.4	20.9	21.4	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 2003.15 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.)