



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L230-835-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-L230-835-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	22335
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	146.1
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	12115	11821	11790
55	11674	11416	11368
65	11119	10873	5812
75	8940	4967	951
85	4017	1757	1318

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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	8392.784	8392.784	8392.784	8392.784	8392.784
5	8293.082	8264.596	8239.670	8271.718	8307.325
10	8125.725	8097.239	8225.427	8246.792	8164.894
15	7937.003	8018.901	7929.882	7865.787	7865.787
20	7698.430	7876.470	7623.654	7584.485	7584.485
25	7388.641	7427.810	7303.182	7281.818	7281.818
30	6993.394	6932.860	6886.570	6861.644	6854.523
35	6573.220	6512.687	6459.275	6452.153	6437.910
40	6110.317	6010.615	5982.129	5971.447	5964.325
45	5576.199	5462.253	5440.889	5433.767	5426.646
50	4953.060	4871.162	4846.237	4839.115	4839.115
55	4358.408	4269.388	4262.267	4244.463	4244.463
60	3681.858	3614.203	3607.081	3592.838	3582.156
65	3058.719	2998.186	2991.064	2303.832	1598.795
70	2335.879	2282.467	1826.686	1239.155	1264.081
75	1506.215	1506.215	836.786	722.841	160.236
80	797.617	516.315	145.992	121.067	121.067
85	227.891	121.067	99.702	74.777	74.777
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3029.6	N.A.	13.60
0-30	6406.63	N.A.	28.70
0-40	10460.13	N.A.	46.80
0-60	18475.26	N.A.	82.70
0-80	22189.51	N.A.	99.30
0-90	22334.87	N.A.	100.00
10-90	21547.3	N.A.	96.50
20-40	7430.53	N.A.	33.30
20-50	11638.3	N.A.	52.10
40-70	10663.53	N.A.	47.70
60-80	3714.25	N.A.	16.60
70-80	1065.85	N.A.	4.80
80-90	145.37	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	22334.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	787.57
10-20	2242.02
20-30	3377.03
30-40	4053.5
40-50	4207.76
50-60	3807.37
60-70	2648.4
70-80	1065.85
80-90	145.37
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	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

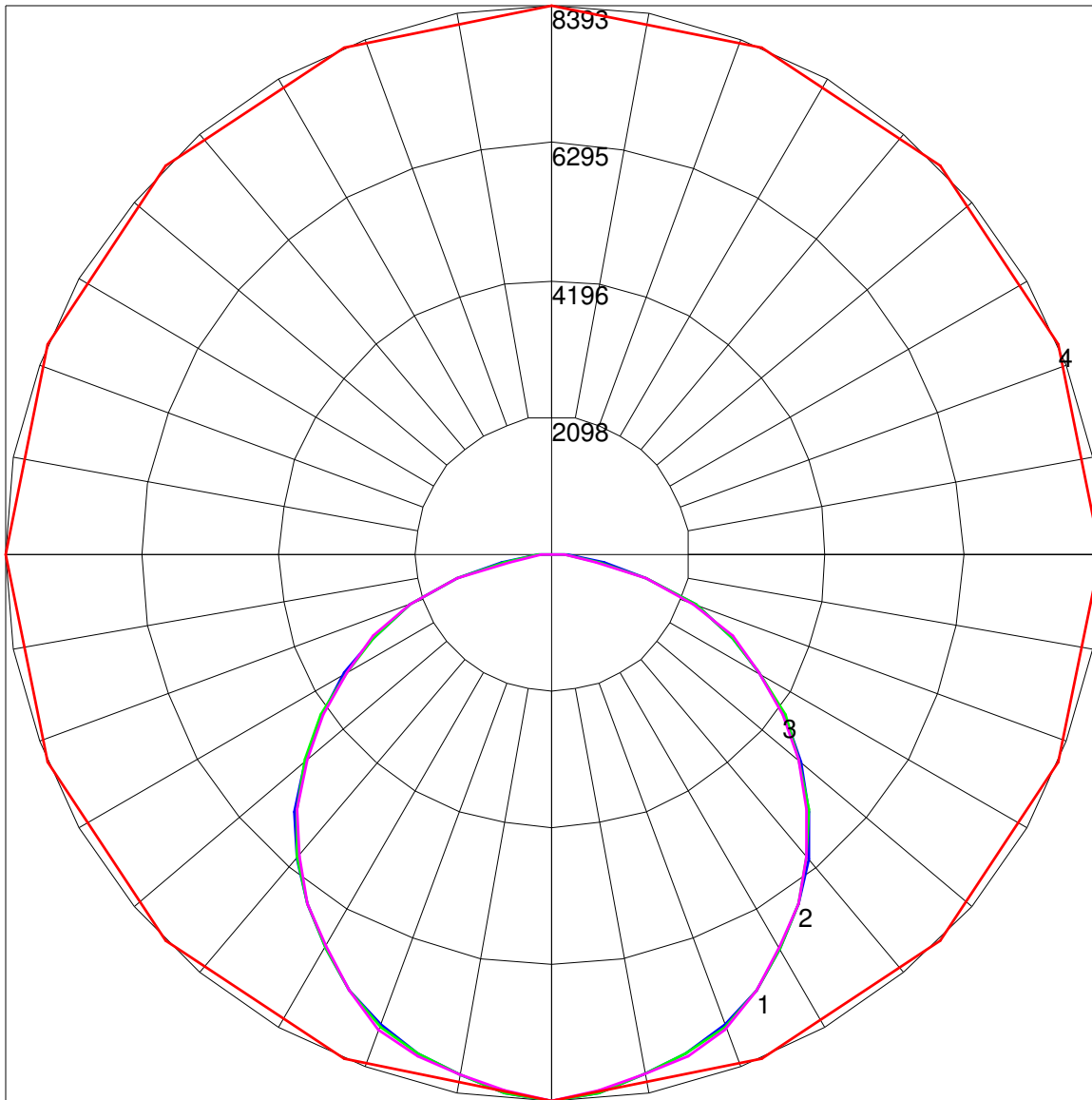
X=2H	Y=2H	20.9	22.5	21.3	22.8	23.1	20.8	22.4	21.2	22.7	23.1
	3H	22.8	24.2	23.2	24.6	24.9	21.5	23.0	21.9	23.3	23.7
	4H	23.4	24.8	23.8	25.1	25.5	21.6	22.9	22.0	23.3	23.6
	6H	23.8	25.0	24.2	25.4	25.8	21.5	22.8	21.9	23.1	23.5
	8H	23.8	25.0	24.3	25.4	25.8	21.5	22.7	21.9	23.1	23.5
	12H	23.9	25.0	24.3	25.4	25.8	21.5	22.6	21.9	23.0	23.4

UGR Viewed Endwise

4H	2H	21.6	22.9	22.0	23.3	23.6	21.5	22.9	21.9	23.2	23.6
	3H	23.6	24.7	24.0	25.1	25.5	22.3	23.5	22.7	23.9	24.3
	4H	24.3	25.3	24.7	25.7	26.2	22.5	23.5	22.9	23.9	24.3
	6H	24.7	25.6	25.1	26.0	26.5	22.4	23.3	22.9	23.8	24.2
	8H	24.8	25.6	25.3	26.1	26.5	22.4	23.2	22.9	23.7	24.2
	12H	24.8	25.6	25.3	26.0	26.5	22.4	23.1	22.9	23.6	24.1
8H	4H	24.3	25.2	24.8	25.6	26.1	22.6	23.5	23.1	23.9	24.4
	6H	24.8	25.4	25.2	25.9	26.4	22.6	23.3	23.1	23.8	24.3
	8H	24.9	25.5	25.4	26.0	26.5	22.6	23.2	23.1	23.7	24.2
	12H	24.9	25.5	25.4	26.0	26.5	22.6	23.1	23.1	23.6	24.2
12H	4H	24.3	25.0	24.8	25.5	26.0	22.6	23.4	23.1	23.8	24.3
	6H	24.7	25.3	25.3	25.8	26.3	22.6	23.2	23.1	23.7	24.2
	8H	24.9	25.4	25.4	25.9	26.4	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 8392.784 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.)