



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L154-835-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-L154-835-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	14950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	100.2
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	8109	7912	7892
55	7814	7641	7609
65	7442	7278	3890
75	5984	3325	637
85	2689	1176	882

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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	5617.669	5617.669	5617.669	5617.669	5617.669
5	5550.934	5531.867	5515.183	5536.634	5560.468
10	5438.914	5419.847	5505.650	5519.950	5465.132
15	5312.594	5367.412	5307.827	5264.926	5264.926
20	5152.907	5272.076	5102.855	5076.638	5076.638
25	4945.551	4971.768	4888.349	4874.049	4874.049
30	4680.994	4640.476	4609.492	4592.808	4588.041
35	4399.753	4359.235	4323.484	4318.717	4309.184
40	4089.911	4023.176	4004.109	3996.959	3992.192
45	3732.401	3656.133	3641.832	3637.065	3632.299
50	3315.307	3260.489	3243.805	3239.038	3239.038
55	2917.279	2857.694	2852.927	2841.010	2841.010
60	2464.434	2419.149	2414.382	2404.849	2397.698
65	2047.339	2006.821	2002.054	1542.059	1070.146
70	1563.509	1527.758	1222.683	829.423	846.106
75	1008.177	1008.177	560.099	483.830	107.253
80	533.881	345.593	97.719	81.036	81.036
85	152.537	81.036	66.735	50.051	50.051
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2027.85	N.A.	13.60
0-30	4288.24	N.A.	28.70
0-40	7001.44	N.A.	46.80
0-60	12366.33	N.A.	82.70
0-80	14852.44	N.A.	99.30
0-90	14949.74	N.A.	100.00
10-90	14422.58	N.A.	96.50
20-40	4973.59	N.A.	33.30
20-50	7790.04	N.A.	52.10
40-70	7137.58	N.A.	47.70
60-80	2486.11	N.A.	16.60
70-80	713.42	N.A.	4.80
80-90	97.30	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	14949.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	527.16
10-20	1500.69
20-30	2260.4
30-40	2713.19
40-50	2816.45
50-60	2548.45
60-70	1772.69
70-80	713.42
80-90	97.30
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

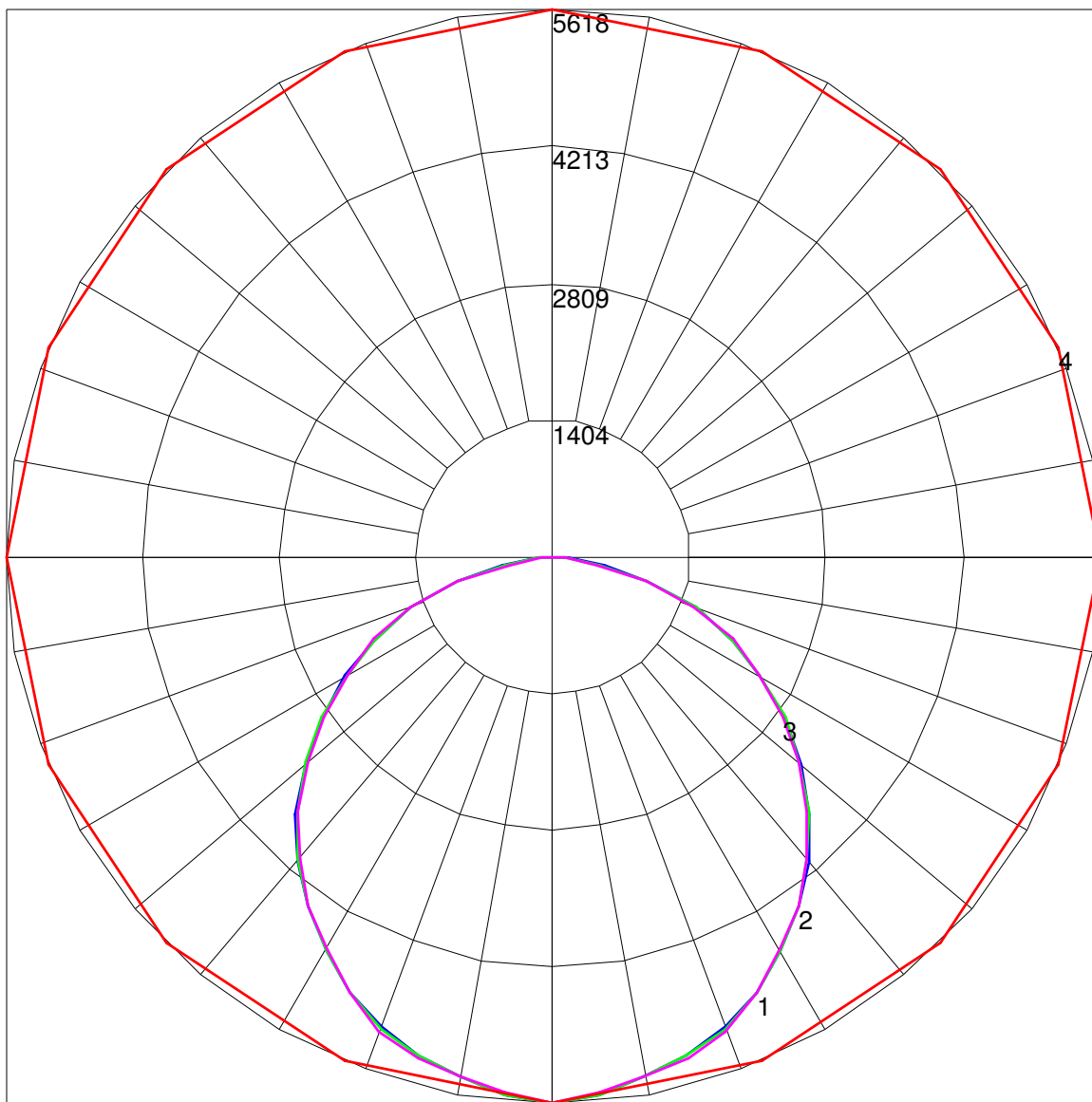
Reflectances

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	19.5	21.1	19.9	21.4	21.7	19.4	21.0	19.8	21.3	21.7
	3H	21.4	22.8	21.8	23.2	23.5	20.1	21.6	20.5	21.9	22.3
	4H	22.0	23.4	22.4	23.7	24.1	20.2	21.5	20.6	21.9	22.2
	6H	22.4	23.6	22.8	24.0	24.4	20.1	21.4	20.5	21.7	22.1
	8H	22.4	23.6	22.9	24.0	24.4	20.1	21.3	20.5	21.7	22.1
	12H	22.5	23.6	22.9	24.0	24.4	20.1	21.2	20.5	21.6	22.0
4H	2H	20.2	21.5	20.6	21.9	22.2	20.1	21.5	20.5	21.8	22.2
	3H	22.2	23.3	22.6	23.7	24.1	20.9	22.1	21.3	22.5	22.9
	4H	22.9	23.9	23.3	24.3	24.8	21.1	22.1	21.5	22.5	22.9
	6H	23.3	24.2	23.7	24.6	25.1	21.0	21.9	21.5	22.4	22.8
	8H	23.4	24.2	23.9	24.7	25.1	21.0	21.8	21.5	22.3	22.8
	12H	23.4	24.2	23.9	24.6	25.1	21.0	21.7	21.5	22.2	22.7
8H	4H	22.9	23.8	23.4	24.2	24.7	21.2	22.1	21.7	22.5	23.0
	6H	23.4	24.0	23.8	24.5	25.0	21.2	21.9	21.7	22.4	22.9
	8H	23.5	24.1	24.0	24.6	25.1	21.2	21.8	21.7	22.3	22.8
	12H	23.5	24.1	24.0	24.6	25.1	21.2	21.7	21.7	22.2	22.8
12H	4H	22.9	23.6	23.4	24.1	24.6	21.2	22.0	21.7	22.4	22.9
	6H	23.3	23.9	23.9	24.4	24.9	21.2	21.8	21.7	22.3	22.8
	8H	23.5	24.0	24.0	24.5	25.0	21.2	21.7	21.7	22.2	22.8

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 5617.669 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.)