



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L154-930-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-L154-930-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	12176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	6604	6444	6427
55	6364	6223	6197
65	6061	5927	3168
75	4874	2708	518
85	2190	958	719

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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	4575.215	4575.215	4575.215	4575.215	4575.215
5	4520.864	4505.335	4491.747	4509.217	4528.628
10	4429.631	4414.102	4483.983	4495.629	4450.984
15	4326.752	4371.398	4322.870	4287.930	4287.930
20	4196.697	4293.753	4155.934	4134.581	4134.581
25	4027.820	4049.172	3981.233	3969.586	3969.586
30	3812.356	3779.357	3754.122	3740.534	3736.652
35	3583.304	3550.305	3521.188	3517.306	3509.541
40	3330.958	3276.607	3261.078	3255.255	3251.373
45	3039.791	2977.675	2966.028	2962.146	2958.264
50	2700.095	2655.449	2641.862	2637.979	2637.979
55	2375.928	2327.400	2323.518	2313.813	2313.813
60	2007.116	1970.235	1966.353	1958.588	1952.765
65	1667.420	1634.421	1630.539	1255.903	871.562
70	1273.373	1244.257	995.794	675.509	689.097
75	821.093	821.093	456.163	394.047	87.350
80	434.810	281.462	79.586	65.998	65.998
85	124.232	65.998	54.351	40.763	40.763
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1651.54	N.A.	13.60
0-30	3492.49	N.A.	28.70
0-40	5702.2	N.A.	46.80
0-60	10071.54	N.A.	82.70
0-80	12096.32	N.A.	99.30
0-90	12175.56	N.A.	100.00
10-90	11746.22	N.A.	96.50
20-40	4050.66	N.A.	33.30
20-50	6344.46	N.A.	52.10
40-70	5813.08	N.A.	47.70
60-80	2024.77	N.A.	16.60
70-80	581.03	N.A.	4.80
80-90	79.24	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	12175.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	429.34
10-20	1222.21
20-30	1840.94
30-40	2209.71
40-50	2293.81
50-60	2075.54
60-70	1443.74
70-80	581.03
80-90	79.24
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

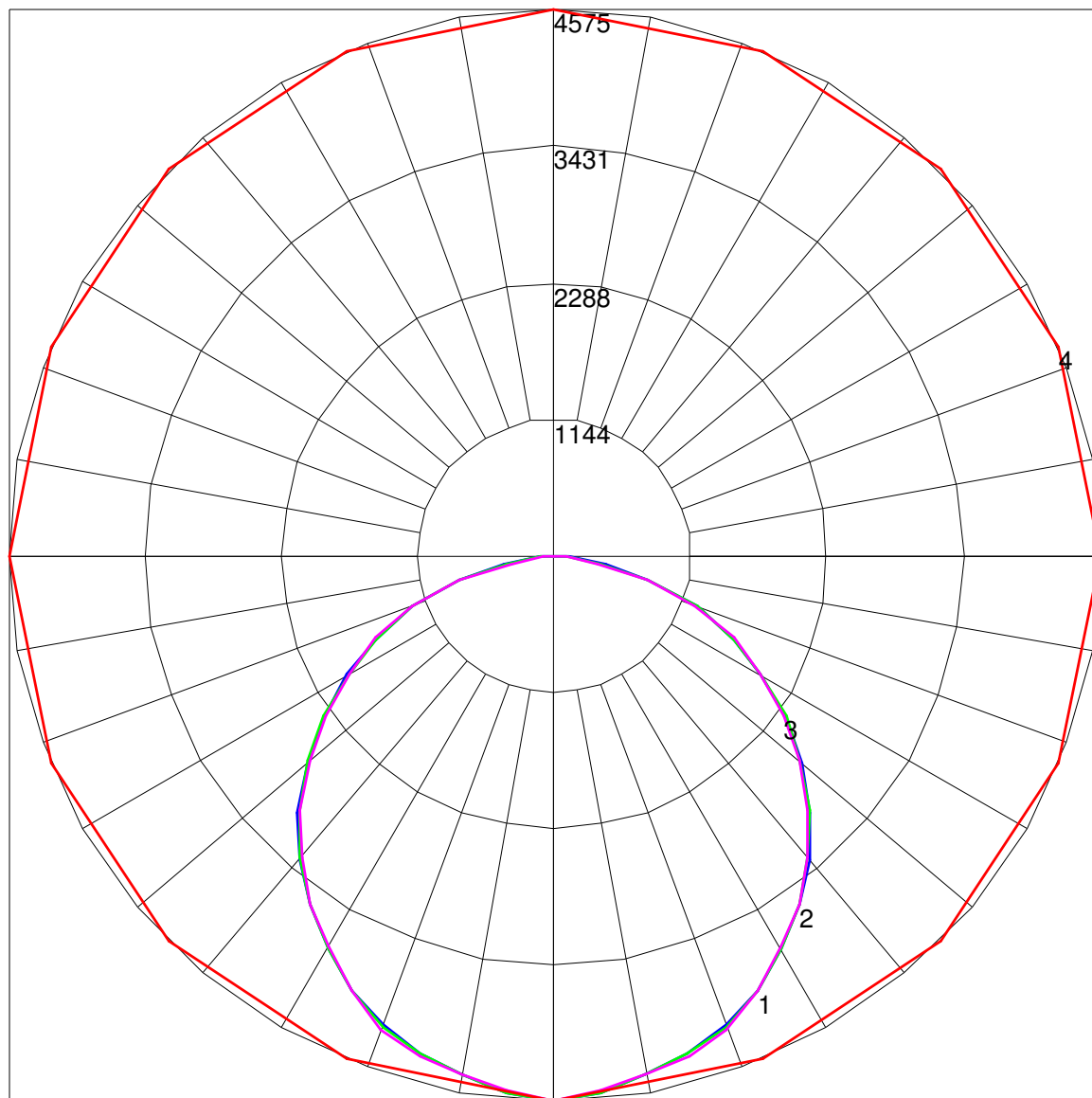
Reflectances

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	18.8	20.4	19.2	20.7	21.0	18.7	20.3	19.1	20.6	21.0
	3H	20.7	22.1	21.1	22.5	22.8	19.4	20.9	19.8	21.2	21.6
	4H	21.3	22.7	21.7	23.0	23.4	19.5	20.8	19.9	21.2	21.5
	6H	21.7	22.9	22.1	23.3	23.7	19.4	20.7	19.8	21.0	21.4
	8H	21.7	22.9	22.2	23.3	23.7	19.4	20.6	19.8	21.0	21.4
	12H	21.8	22.9	22.2	23.3	23.7	19.4	20.5	19.8	20.9	21.3
4H	2H	19.5	20.8	19.9	21.2	21.5	19.4	20.8	19.8	21.1	21.5
	3H	21.5	22.6	21.9	23.0	23.4	20.2	21.4	20.6	21.8	22.2
	4H	22.2	23.2	22.6	23.6	24.1	20.4	21.4	20.8	21.8	22.2
	6H	22.6	23.5	23.0	23.9	24.4	20.3	21.2	20.8	21.7	22.1
	8H	22.7	23.5	23.2	24.0	24.4	20.3	21.1	20.8	21.6	22.1
	12H	22.7	23.5	23.2	23.9	24.4	20.3	21.0	20.8	21.5	22.0
8H	4H	22.2	23.1	22.7	23.5	24.0	20.5	21.4	21.0	21.8	22.3
	6H	22.7	23.3	23.1	23.8	24.3	20.5	21.2	21.0	21.7	22.2
	8H	22.8	23.4	23.3	23.9	24.4	20.5	21.1	21.0	21.6	22.1
	12H	22.8	23.4	23.3	23.9	24.4	20.5	21.0	21.0	21.5	22.1
12H	4H	22.2	22.9	22.7	23.4	23.9	20.5	21.3	21.0	21.7	22.2
	6H	22.6	23.2	23.2	23.7	24.2	20.5	21.1	21.0	21.6	22.1
	8H	22.8	23.3	23.3	23.8	24.3	20.5	21.0	21.0	21.5	22.1

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 4575.215 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.)