



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L154-927-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-L154-927-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	11867
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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	6437	6281	6264
55	6203	6066	6040
65	5908	5777	3088
75	4750	2639	505
85	2134	934	700

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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	4459.385	4459.385	4459.385	4459.385	4459.385
5	4406.410	4391.274	4378.030	4395.058	4413.978
10	4317.487	4302.351	4370.462	4381.814	4338.299
15	4217.212	4260.728	4213.428	4179.373	4179.373
20	4090.450	4185.049	4050.719	4029.907	4029.907
25	3925.848	3946.660	3880.441	3869.089	3869.089
30	3715.839	3683.675	3659.080	3645.836	3642.052
35	3492.586	3460.422	3432.043	3428.259	3420.691
40	3246.629	3193.654	3178.518	3172.842	3169.058
45	2962.833	2902.290	2890.938	2887.154	2883.370
50	2631.737	2588.222	2574.978	2571.194	2571.194
55	2315.777	2268.478	2264.694	2255.234	2255.234
60	1956.302	1920.355	1916.571	1909.003	1903.327
65	1625.207	1593.043	1589.259	1224.108	849.497
70	1241.136	1212.756	970.583	658.407	671.651
75	800.305	800.305	444.614	384.071	85.139
80	423.802	274.336	77.571	64.327	64.327
85	121.086	64.327	52.975	39.731	39.731
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1609.73	N.A.	13.60
0-30	3404.07	N.A.	28.70
0-40	5557.84	N.A.	46.80
0-60	9816.56	N.A.	82.70
0-80	11790.08	N.A.	99.30
0-90	11867.31	N.A.	100.00
10-90	11448.85	N.A.	96.50
20-40	3948.11	N.A.	33.30
20-50	6183.84	N.A.	52.10
40-70	5665.91	N.A.	47.70
60-80	1973.51	N.A.	16.60
70-80	566.32	N.A.	4.80
80-90	77.24	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	11867.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	418.47
10-20	1191.27
20-30	1794.34
30-40	2153.77
40-50	2235.73
50-60	2022.99
60-70	1407.19
70-80	566.32
80-90	77.24
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	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

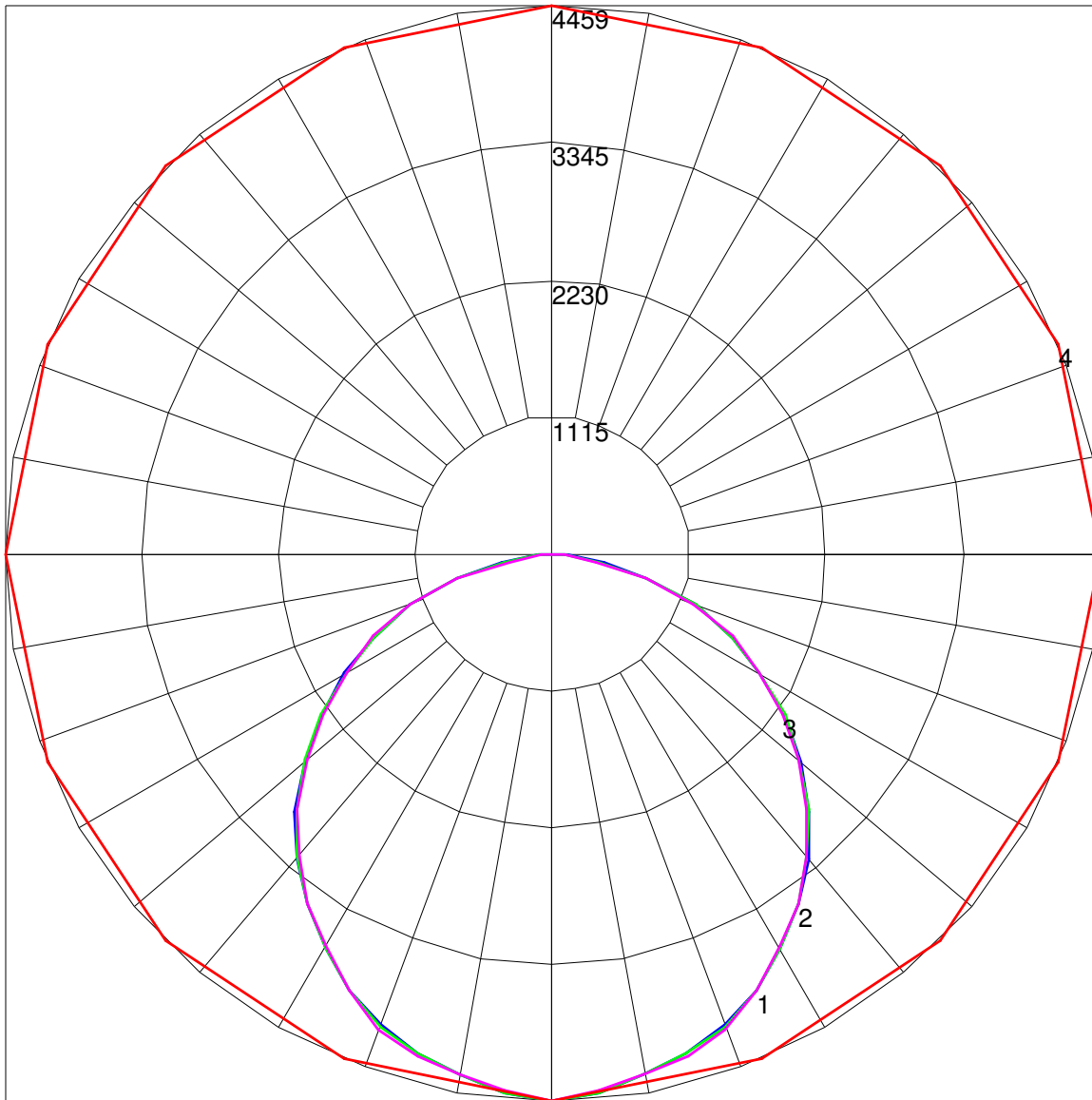
Reflectances

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	18.7	20.3	19.1	20.6	20.9	18.6	20.2	19.0	20.5	20.9
	3H	20.6	22.0	21.0	22.4	22.7	19.3	20.8	19.7	21.1	21.5
	4H	21.2	22.6	21.6	22.9	23.3	19.4	20.7	19.8	21.1	21.4
	6H	21.6	22.8	22.0	23.2	23.6	19.3	20.6	19.7	20.9	21.3
	8H	21.6	22.8	22.1	23.2	23.6	19.3	20.5	19.7	20.9	21.3
	12H	21.7	22.8	22.1	23.2	23.6	19.3	20.4	19.7	20.8	21.2
4H	2H	19.4	20.7	19.8	21.1	21.4	19.3	20.7	19.7	21.0	21.4
	3H	21.4	22.5	21.8	22.9	23.3	20.1	21.3	20.5	21.7	22.1
	4H	22.1	23.1	22.5	23.5	24.0	20.3	21.3	20.7	21.7	22.1
	6H	22.5	23.4	22.9	23.8	24.3	20.2	21.1	20.7	21.6	22.0
	8H	22.6	23.4	23.1	23.9	24.3	20.2	21.0	20.7	21.5	22.0
	12H	22.6	23.4	23.1	23.8	24.3	20.2	20.9	20.7	21.4	21.9
8H	4H	22.1	23.0	22.6	23.4	23.9	20.4	21.3	20.9	21.7	22.2
	6H	22.6	23.2	23.1	23.7	24.2	20.4	21.1	20.9	21.6	22.1
	8H	22.7	23.3	23.2	23.8	24.3	20.4	21.0	20.9	21.5	22.0
	12H	22.7	23.3	23.2	23.8	24.3	20.4	20.9	20.9	21.4	22.0
12H	4H	22.1	22.8	22.6	23.3	23.8	20.4	21.2	20.9	21.6	22.1
	6H	22.5	23.1	23.1	23.6	24.1	20.4	21.0	20.9	21.5	22.0
	8H	22.7	23.2	23.2	23.7	24.2	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 4459.385 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.)