



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L38)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19011.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 02-22-2024
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
[LUMINAIRE] 4' SURFACE MOUNT LED LUMINAIRE
[MORE] WITH FROSTED ACRYLIC RIBBED LENS
[LUMCAT] 39-4-L52-835-A-(L38)-DIM-UNV
[LAMPCAT]HLM 80 CRI, 3500K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, ARCHITECTURAL, COMMERCIAL, DIRECT, LINEAR
[_SEARCH_MOUNTING]SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3748
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	28.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.79 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3716	3361	3321
55	3100	2762	2777
65	2565	2261	2412
75	1870	1793	2081
85	1103	1494	1939

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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	1432.527	1432.527	1432.527	1432.527	1432.527
5	1440.482	1439.758	1439.035	1439.035	1439.758
10	1408.664	1407.941	1407.941	1408.664	1410.110
15	1358.768	1360.214	1362.383	1363.829	1365.276
20	1317.549	1318.272	1322.611	1323.334	1323.334
25	1206.910	1209.802	1213.418	1215.587	1215.587
30	1115.072	1118.687	1123.749	1126.642	1127.365
35	1037.696	1043.481	1051.436	1055.052	1057.221
40	910.425	917.656	928.503	935.011	937.904
45	809.186	819.310	833.773	843.897	847.512
50	676.130	686.254	705.778	720.964	726.749
55	557.536	569.829	593.692	611.771	619.725
60	444.727	457.743	483.053	509.809	520.656
65	349.997	363.736	396.277	433.157	444.727
70	254.543	271.175	313.840	353.612	369.521
75	166.321	186.568	233.572	276.237	291.423
80	97.623	123.656	174.998	218.386	233.572
85	42.665	70.867	121.486	162.705	177.168
90	0.000	31.095	72.313	105.577	118.594
95	0.000	13.016	46.281	75.929	87.499
100	0.000	0.000	28.202	51.342	59.297
105	0.000	0.000	18.078	33.987	41.219
110	0.000	0.000	0.000	23.140	28.202
115	0.000	0.000	0.000	17.355	20.971
120	0.000	0.000	0.000	14.463	15.909
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	521.70	N.A.	13.90
0-30	1082.95	N.A.	28.90
0-40	1732.41	N.A.	46.20
0-60	2897.82	N.A.	77.30
0-80	3541.58	N.A.	94.50
0-90	3669.73	N.A.	97.90
10-90	3533.52	N.A.	94.30
20-40	1210.7	N.A.	32.30
20-50	1846.31	N.A.	49.30
40-70	1559.43	N.A.	41.60
60-80	643.76	N.A.	17.20
70-80	249.74	N.A.	6.70
80-90	128.15	N.A.	3.40
90-110	69.54	N.A.	1.90
90-120	76.71	N.A.	2.00
90-130	78.01	N.A.	2.10
90-150	78.01	N.A.	2.10
90-180	78.01	N.A.	2.10
110-180	8.47	N.A.	0.20
0-180	3747.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.21
10-20	385.49
20-30	561.24
30-40	649.46
40-50	635.60
50-60	529.81
60-70	394.01
70-80	249.74
80-90	128.15
90-100	50.19
100-110	19.35
110-120	7.17
120-130	1.30
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	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	86	88	86	83	81
2	98	90	83	77	95	88	82	76	84	79	74	80	76	72	77	74	70	68
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	71	62	55	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	54	48	74	62	54	48	60	52	47	58	51	46	55	50	45	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	36	30	55	43	35	30	42	35	30	41	34	30	39	34	29	27
10	53	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

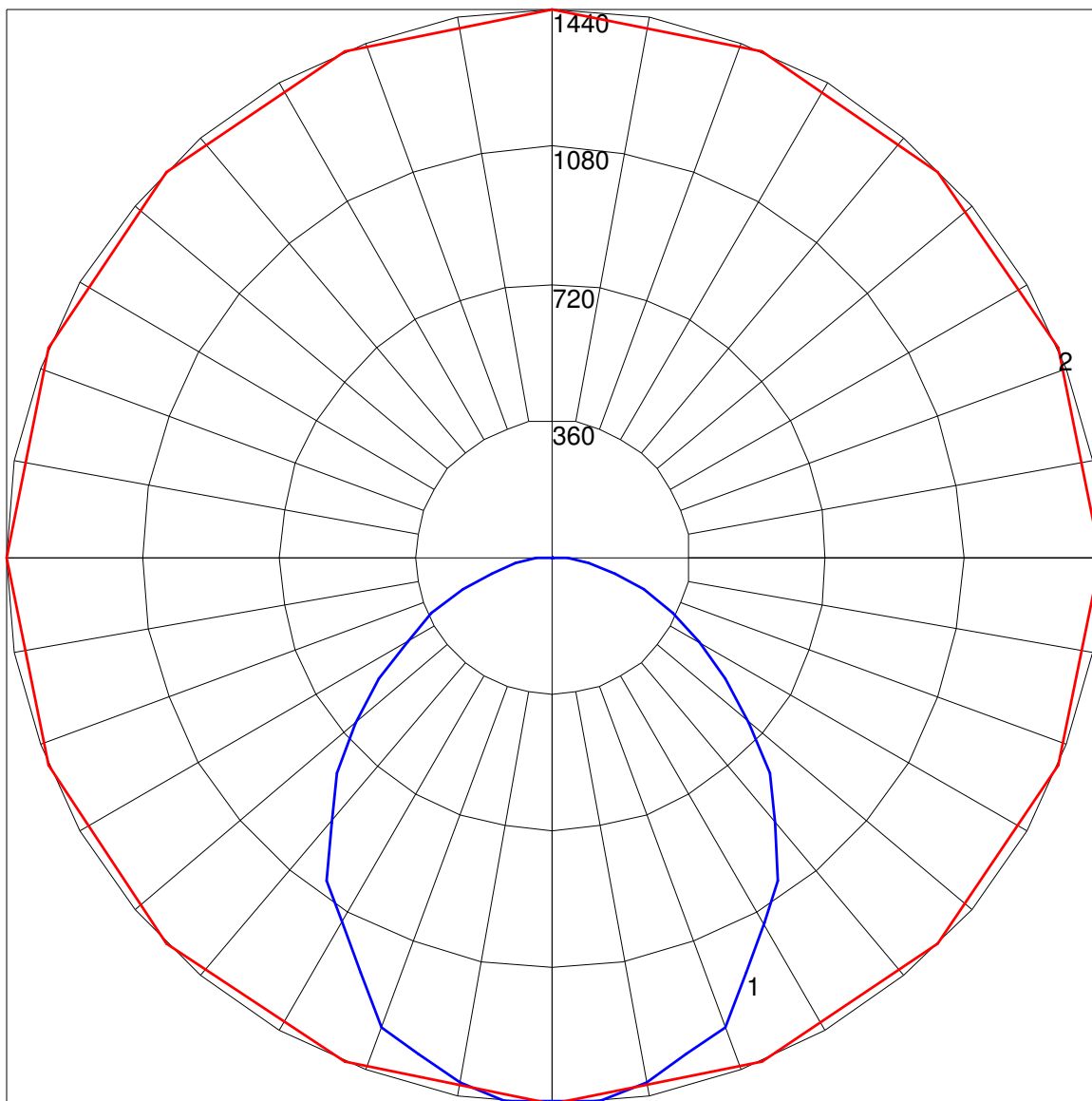
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UGR TABLE - CORRECTED

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	14.5	16.0	14.9	16.4	16.8	15.6	17.2	16.0	17.6	17.9
	3H	15.8	17.3	16.2	17.6	18.0	17.7	19.1	18.1	19.5	19.9
	4H	16.2	17.6	16.7	18.0	18.4	18.6	19.9	19.0	20.3	20.7
	6H	16.5	17.8	16.9	18.2	18.6	19.5	20.7	19.9	21.1	21.6
	8H	16.6	17.8	17.0	18.2	18.6	19.9	21.1	20.4	21.5	22.0
	12H	16.6	17.7	17.1	18.2	18.6	20.3	21.5	20.8	21.9	22.4
4H	2H	15.1	16.5	15.6	16.9	17.3	16.1	17.4	16.5	17.8	18.2
	3H	16.7	17.8	17.2	18.3	18.7	18.3	19.5	18.8	19.9	20.4
	4H	17.2	18.3	17.7	18.7	19.2	19.4	20.4	19.9	20.9	21.3
	6H	17.6	18.5	18.1	19.0	19.5	20.5	21.4	20.9	21.8	22.3
	8H	17.7	18.6	18.2	19.0	19.5	21.0	21.8	21.5	22.3	22.8
	12H	17.8	18.5	18.3	19.0	19.6	21.5	22.3	22.1	22.8	23.3
8H	4H	17.7	18.5	18.2	19.0	19.5	19.6	20.4	20.1	20.9	21.4
	6H	18.2	18.9	18.7	19.4	19.9	20.8	21.5	21.3	22.0	22.6
	8H	18.3	19.0	18.9	19.5	20.1	21.4	22.1	22.0	22.6	23.2
	12H	18.5	19.0	19.0	19.6	20.2	22.2	22.7	22.7	23.3	23.9
12H	4H	17.8	18.5	18.3	19.1	19.6	19.6	20.3	20.1	20.9	21.4
	6H	18.3	19.0	18.9	19.5	20.1	20.8	21.5	21.4	22.0	22.6
	8H	18.6	19.2	19.1	19.7	20.3	21.5	22.1	22.1	22.6	23.2

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1440.482 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)