



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L45)-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] 12-12-2024

[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-(L45)-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	4351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	30.5
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	4313	3902	3856
55	3599	3207	3224
65	2977	2625	2800
75	2171	2081	2416
85	1280	1734	2251

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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	1663.000	1663.000	1663.000	1663.000	1663.000
5	1672.235	1671.395	1670.556	1670.556	1671.395
10	1635.298	1634.458	1634.458	1635.298	1636.977
15	1577.374	1579.053	1581.571	1583.250	1584.929
20	1529.524	1530.363	1535.400	1536.240	1536.240
25	1401.084	1404.442	1408.639	1411.158	1411.158
30	1294.471	1298.668	1304.544	1307.902	1308.742
35	1204.647	1211.363	1220.597	1224.794	1227.313
40	1056.899	1065.294	1077.886	1085.441	1088.799
45	939.373	951.125	967.915	979.668	983.865
50	784.909	796.662	819.328	836.957	843.673
55	647.235	661.506	689.209	710.196	719.430
60	516.277	531.388	560.769	591.830	604.422
65	406.306	422.256	460.032	502.846	516.277
70	295.495	314.803	364.332	410.503	428.972
75	193.079	216.585	271.150	320.680	338.309
80	113.329	143.550	203.153	253.522	271.150
85	49.529	82.269	141.032	188.882	205.671
90	0.000	36.097	83.948	122.563	137.674
95	0.000	15.111	53.726	88.145	101.577
100	0.000	0.000	32.740	59.603	68.837
105	0.000	0.000	20.987	39.455	47.850
110	0.000	0.000	0.000	26.863	32.740
115	0.000	0.000	0.000	20.147	24.345
120	0.000	0.000	0.000	16.790	18.468
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	605.64	N.A.	13.90
0-30	1257.18	N.A.	28.90
0-40	2011.13	N.A.	46.20
0-60	3364.04	N.A.	77.30
0-80	4111.37	N.A.	94.50
0-90	4260.14	N.A.	97.90
10-90	4102.01	N.A.	94.30
20-40	1405.49	N.A.	32.30
20-50	2143.35	N.A.	49.30
40-70	1810.32	N.A.	41.60
60-80	747.33	N.A.	17.20
70-80	289.92	N.A.	6.70
80-90	148.77	N.A.	3.40
90-110	80.73	N.A.	1.90
90-120	89.06	N.A.	2.00
90-130	90.56	N.A.	2.10
90-150	90.56	N.A.	2.10
90-180	90.56	N.A.	2.10
110-180	9.83	N.A.	0.20
0-180	4350.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.13
10-20	447.51
20-30	651.54
30-40	753.95
40-50	737.86
50-60	615.05
60-70	457.41
70-80	289.92
80-90	148.77
90-100	58.27
100-110	22.46
110-120	8.33
120-130	1.50
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

X=2H	Y=2H	15.0	16.5	15.4	16.9	17.3	16.1	17.7	16.5	18.1	18.4
	3H	16.3	17.8	16.7	18.1	18.5	18.2	19.6	18.6	20.0	20.4
	4H	16.7	18.1	17.2	18.5	18.9	19.1	20.4	19.5	20.8	21.2
	6H	17.0	18.3	17.4	18.7	19.1	20.0	21.2	20.4	21.6	22.1
	8H	17.1	18.3	17.5	18.7	19.1	20.4	21.6	20.9	22.0	22.5
	12H	17.1	18.2	17.6	18.7	19.1	20.8	22.0	21.3	22.4	22.9

UGR Viewed Endwise

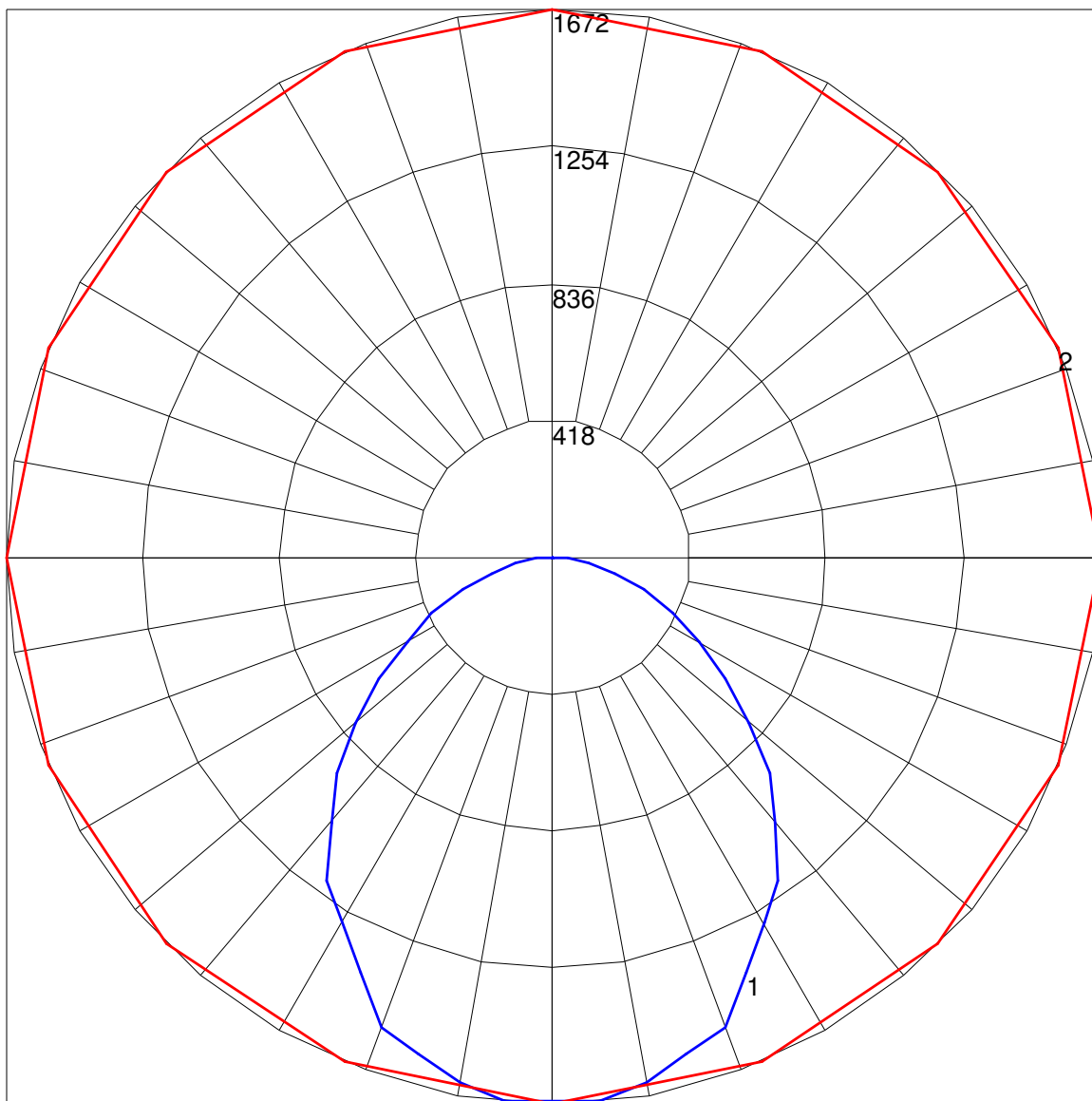
4H	2H	15.6	17.0	16.1	17.4	17.8	16.6	17.9	17.0	18.3	18.7
	3H	17.2	18.3	17.7	18.8	19.2	18.8	20.0	19.3	20.4	20.8
	4H	17.7	18.8	18.2	19.2	19.7	19.9	20.9	20.4	21.4	21.8
	6H	18.1	19.0	18.6	19.5	20.0	21.0	21.9	21.4	22.3	22.8
	8H	18.2	19.1	18.7	19.5	20.0	21.5	22.3	22.0	22.8	23.3
	12H	18.3	19.0	18.8	19.5	20.1	22.0	22.8	22.6	23.3	23.8

8H	4H	18.2	19.0	18.7	19.5	20.0	20.1	20.9	20.6	21.4	21.9
	6H	18.7	19.4	19.2	19.9	20.4	21.3	22.0	21.8	22.5	23.1
	8H	18.8	19.5	19.4	20.0	20.6	21.9	22.6	22.5	23.1	23.7
	12H	19.0	19.5	19.5	20.1	20.7	22.7	23.2	23.2	23.8	24.4

12H	4H	18.3	19.0	18.8	19.6	20.1	20.1	20.8	20.6	21.4	21.9
	6H	18.8	19.5	19.4	20.0	20.6	21.3	22.0	21.9	22.5	23.1
	8H	19.1	19.7	19.6	20.2	20.8	22.0	22.6	22.6	23.1	23.7

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1672.235 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.)