



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L25)-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] 10-03-2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 10" WIDE 4' LONG LED LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39-4-L52-835-A-(L25)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Commercial, Direct, Linear

[\_SEARCH\_MOUNTING] Pendant, Surface

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2516
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	19
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	2494	2256	2230
55	2081	1854	1864
65	1722	1518	1619
75	1255	1204	1397
85	740	1003	1302

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L25)-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	961.643	961.643	961.643	961.643	961.643
5	966.983	966.497	966.012	966.012	966.497
10	945.624	945.138	945.138	945.624	946.595
15	912.129	913.100	914.556	915.527	916.498
20	884.459	884.945	887.857	888.343	888.343
25	810.188	812.130	814.557	816.013	816.013
30	748.538	750.965	754.363	756.305	756.790
35	696.597	700.480	705.820	708.247	709.703
40	611.160	616.015	623.296	627.665	629.607
45	543.200	549.996	559.704	566.501	568.928
50	453.880	460.676	473.783	483.977	487.860
55	374.269	382.521	398.541	410.676	416.016
60	298.541	307.279	324.269	342.230	349.512
65	234.950	244.173	266.017	290.774	298.541
70	170.872	182.037	210.678	237.377	248.056
75	111.650	125.242	156.795	185.435	195.630
80	65.533	83.009	117.475	146.601	156.795
85	28.641	47.572	81.553	109.222	118.931
90	0.000	20.874	48.543	70.873	79.611
95	0.000	8.738	31.068	50.970	58.737
100	0.000	0.000	18.932	34.466	39.806
105	0.000	0.000	12.136	22.815	27.670
110	0.000	0.000	0.000	15.534	18.932
115	0.000	0.000	0.000	11.650	14.078
120	0.000	0.000	0.000	9.709	10.680
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L25)-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	350.22	N.A.	13.90
0-30	726.97	N.A.	28.90
0-40	1162.95	N.A.	46.20
0-60	1945.28	N.A.	77.30
0-80	2377.43	N.A.	94.50
0-90	2463.46	N.A.	97.90
10-90	2372.02	N.A.	94.30
20-40	812.74	N.A.	32.30
20-50	1239.41	N.A.	49.30
40-70	1046.83	N.A.	41.60
60-80	432.15	N.A.	17.20
70-80	167.65	N.A.	6.70
80-90	86.03	N.A.	3.40
90-110	46.68	N.A.	1.90
90-120	51.50	N.A.	2.00
90-130	52.37	N.A.	2.10
90-150	52.37	N.A.	2.10
90-180	52.37	N.A.	2.10
110-180	5.69	N.A.	0.20
0-180	2515.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	91.44
10-20	258.78
20-30	376.76
30-40	435.98
40-50	426.68
50-60	355.66
60-70	264.50
70-80	167.65
80-90	86.03
90-100	33.69
100-110	12.99
110-120	4.82
120-130	0.87
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L25)-DIM-UNV\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L25)-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

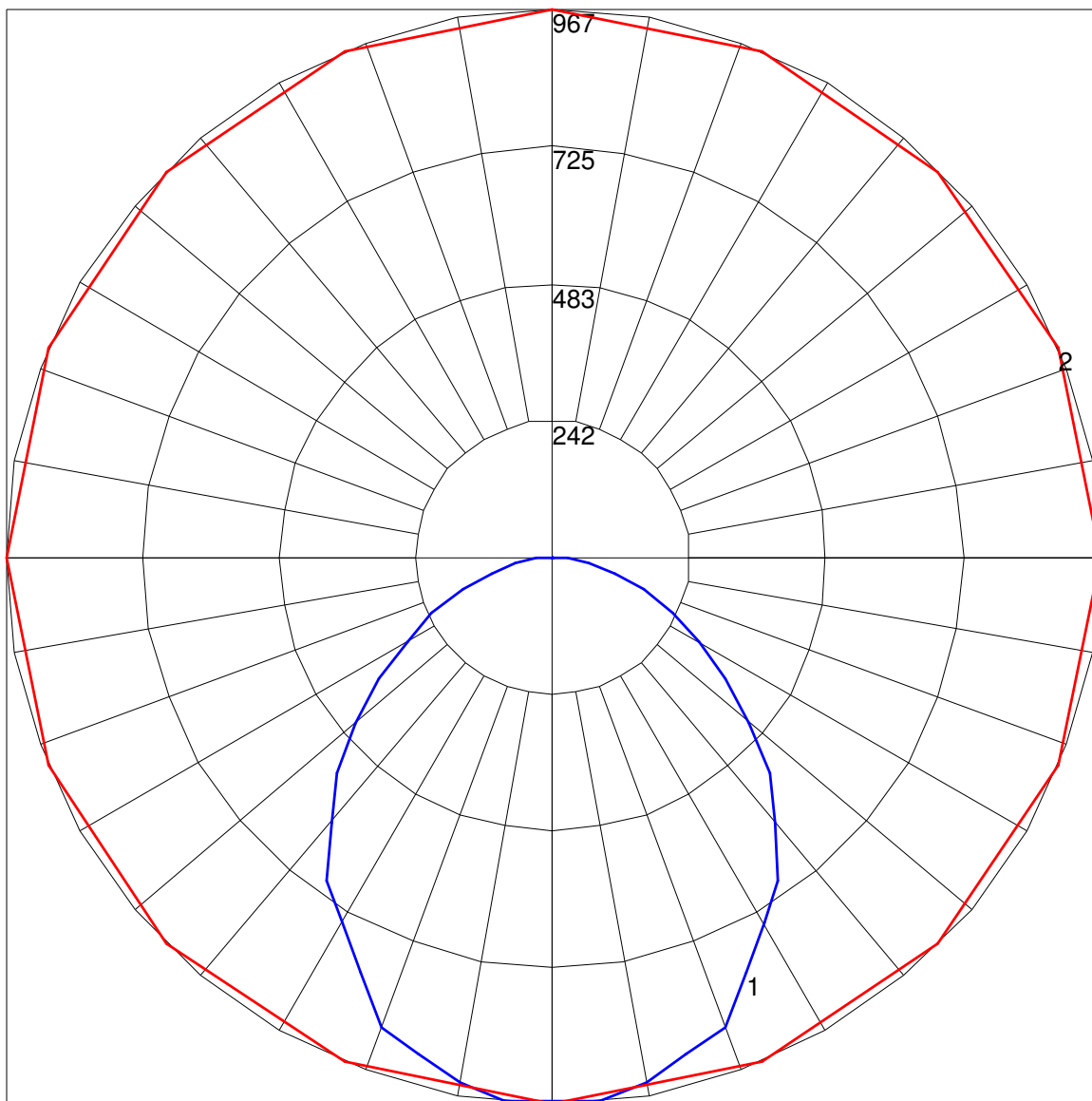
Reflectances

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	13.1	14.6	13.5	15.0	15.4	14.2	15.8	14.6	16.2	16.5
	3H	14.4	15.9	14.8	16.2	16.6	16.3	17.7	16.7	18.1	18.5
	4H	14.8	16.2	15.3	16.6	17.0	17.2	18.5	17.6	18.9	19.3
	6H	15.1	16.4	15.5	16.8	17.2	18.1	19.3	18.5	19.7	20.1
	8H	15.2	16.4	15.6	16.8	17.2	18.5	19.7	19.0	20.1	20.6
	12H	15.2	16.3	15.7	16.8	17.2	18.9	20.1	19.4	20.5	21.0
4H	2H	13.7	15.1	14.2	15.5	15.9	14.7	16.0	15.1	16.4	16.8
	3H	15.3	16.4	15.8	16.9	17.3	16.9	18.1	17.4	18.5	18.9
	4H	15.8	16.9	16.3	17.3	17.8	18.0	19.0	18.4	19.5	19.9
	6H	16.2	17.1	16.7	17.6	18.1	19.1	19.9	19.5	20.4	20.9
	8H	16.3	17.1	16.8	17.6	18.1	19.6	20.4	20.1	20.9	21.4
	12H	16.4	17.1	16.9	17.6	18.2	20.1	20.9	20.7	21.4	21.9
8H	4H	16.3	17.1	16.8	17.6	18.1	18.2	19.0	18.7	19.5	20.0
	6H	16.8	17.5	17.3	18.0	18.5	19.4	20.1	19.9	20.6	21.2
	8H	16.9	17.6	17.5	18.1	18.7	20.0	20.7	20.6	21.2	21.8
	12H	17.1	17.6	17.6	18.2	18.8	20.8	21.3	21.3	21.9	22.5
12H	4H	16.4	17.1	16.9	17.7	18.2	18.2	18.9	18.7	19.5	20.0
	6H	16.9	17.6	17.5	18.1	18.7	19.4	20.1	20.0	20.6	21.2
	8H	17.2	17.8	17.7	18.3	18.9	20.1	20.7	20.7	21.2	21.8

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 966.983 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.)