



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39W-4-L30-835-A-(L24)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19087.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 07-02-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' SURFACE MOUNT LED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39W-4-L30-835-A-(L24)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] INDOOR, ARCHETECTURAL, COMMERCIAL, DIRECT, LINEAR

[\_SEARCH\_MOUNTING] SURFACE, SUSPENDED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2432
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	18.4
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	2411	2181	2155
55	2011	1792	1802
65	1664	1467	1565
75	1214	1163	1351
85	715	969	1258

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39W-4-L30-835-A-(L24)-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>
<b>0</b>	929.537	929.537	929.537	929.537	929.537
<b>5</b>	934.699	934.230	933.760	933.760	934.230
<b>10</b>	914.053	913.584	913.584	914.053	914.991
<b>15</b>	881.676	882.615	884.022	884.961	885.899
<b>20</b>	854.930	855.400	858.215	858.684	858.684
<b>25</b>	783.139	785.016	787.362	788.769	788.769
<b>30</b>	723.547	725.893	729.178	731.055	731.524
<b>35</b>	673.340	677.094	682.255	684.601	686.009
<b>40</b>	590.756	595.448	602.487	606.710	608.587
<b>45</b>	525.064	531.633	541.018	547.587	549.933
<b>50</b>	438.727	445.296	457.965	467.819	471.572
<b>55</b>	361.773	369.750	385.235	396.965	402.127
<b>60</b>	288.574	297.020	313.443	330.805	337.843
<b>65</b>	227.106	236.021	257.136	281.067	288.574
<b>70</b>	165.168	175.960	203.644	229.452	239.775
<b>75</b>	107.922	121.060	151.560	179.244	189.098
<b>80</b>	63.346	80.238	113.553	141.706	151.560
<b>85</b>	27.684	45.984	78.830	105.576	114.960
<b>90</b>	0.000	20.177	46.923	68.507	76.953
<b>95</b>	0.000	8.446	30.030	49.269	56.776
<b>100</b>	0.000	0.000	18.300	33.315	38.477
<b>105</b>	0.000	0.000	11.731	22.054	26.746
<b>110</b>	0.000	0.000	0.000	15.015	18.300
<b>115</b>	0.000	0.000	0.000	11.261	13.608
<b>120</b>	0.000	0.000	0.000	9.385	10.323
<b>125</b>	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39W-4-L30-835-A-(L24)-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	338.52	N.A.	13.90
0-30	702.70	N.A.	28.90
0-40	1124.12	N.A.	46.20
0-60	1880.34	N.A.	77.30
0-80	2298.06	N.A.	94.50
0-90	2381.21	N.A.	97.90
10-90	2292.83	N.A.	94.30
20-40	785.60	N.A.	32.30
20-50	1198.03	N.A.	49.30
40-70	1011.88	N.A.	41.60
60-80	417.72	N.A.	17.20
70-80	162.05	N.A.	6.70
80-90	83.15	N.A.	3.40
90-110	45.12	N.A.	1.90
90-120	49.78	N.A.	2.00
90-130	50.62	N.A.	2.10
90-150	50.62	N.A.	2.10
90-180	50.62	N.A.	2.10
110-180	5.50	N.A.	0.20
0-180	2431.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.39
10-20	250.14
20-30	364.18
30-40	421.42
40-50	412.43
50-60	343.78
60-70	255.67
70-80	162.05
80-90	83.15
90-100	32.57
100-110	12.55
110-120	4.66
120-130	0.84
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 : 39W-4-L30-835-A-(L24)-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 : 39W-4-L30-835-A-(L24)-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

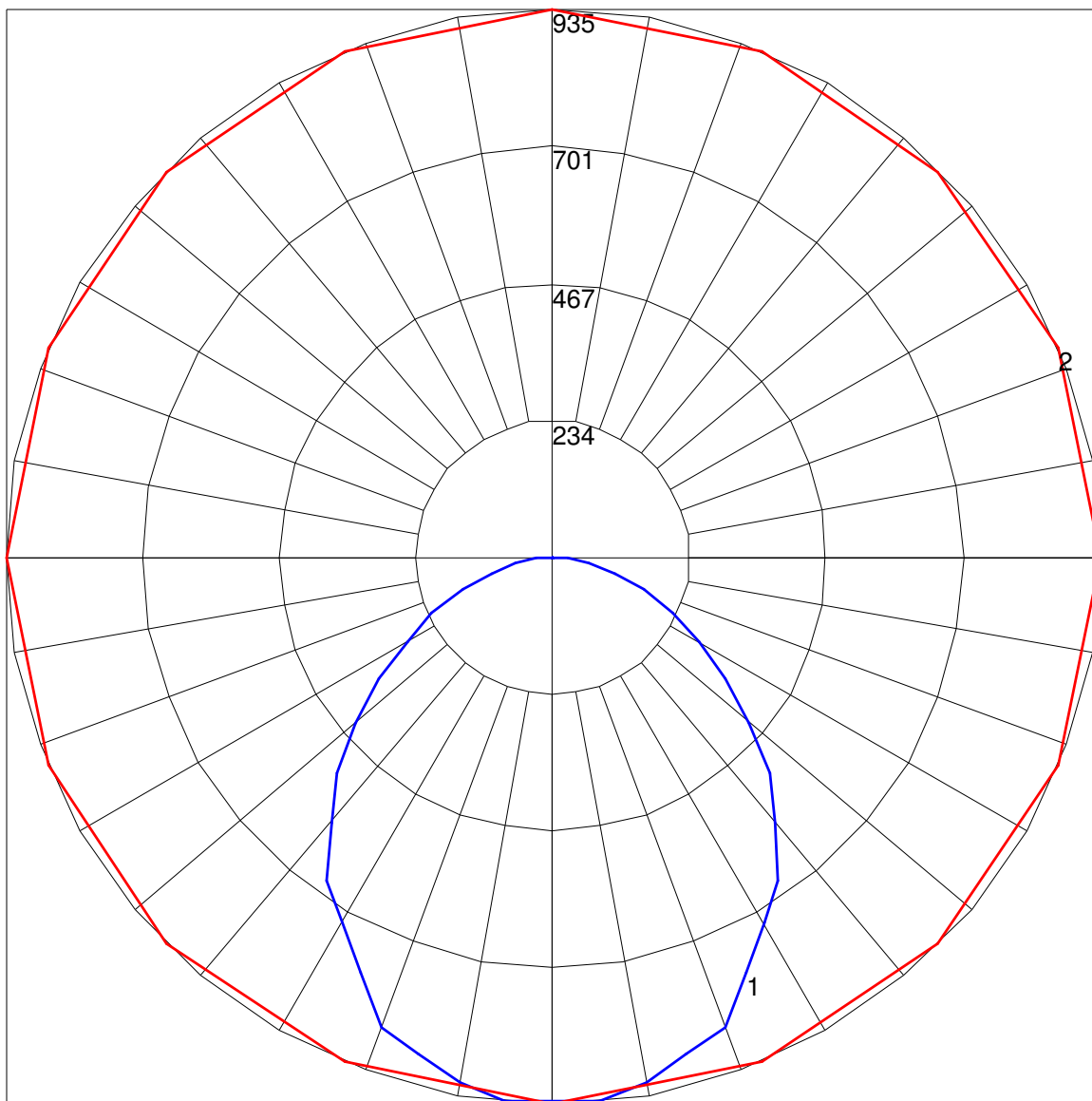
Reflectances

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	13.0	14.5	13.4	14.9	15.3	14.1	15.7	14.5	16.1	16.4
	3H	14.3	15.8	14.7	16.1	16.5	16.2	17.6	16.6	18.0	18.4
	4H	14.7	16.1	15.2	16.5	16.9	17.1	18.4	17.5	18.8	19.2
	6H	15.0	16.3	15.4	16.7	17.1	18.0	19.2	18.4	19.6	20.0
	8H	15.1	16.3	15.5	16.7	17.1	18.4	19.6	18.9	20.0	20.5
	12H	15.1	16.2	15.6	16.7	17.1	18.8	20.0	19.3	20.4	20.9
4H	2H	13.6	15.0	14.1	15.4	15.8	14.6	15.9	15.0	16.3	16.7
	3H	15.2	16.3	15.7	16.8	17.2	16.8	18.0	17.3	18.4	18.8
	4H	15.7	16.8	16.2	17.2	17.7	17.9	18.9	18.3	19.4	19.8
	6H	16.1	17.0	16.6	17.5	18.0	19.0	19.8	19.4	20.3	20.8
	8H	16.2	17.0	16.7	17.5	18.0	19.5	20.3	20.0	20.8	21.3
	12H	16.3	17.0	16.8	17.5	18.1	20.0	20.8	20.6	21.3	21.8
8H	4H	16.2	17.0	16.7	17.5	18.0	18.1	18.9	18.6	19.4	19.9
	6H	16.7	17.4	17.2	17.9	18.4	19.3	20.0	19.8	20.5	21.1
	8H	16.8	17.5	17.4	18.0	18.6	19.9	20.6	20.5	21.1	21.7
	12H	17.0	17.5	17.5	18.1	18.7	20.7	21.2	21.2	21.8	22.4
12H	4H	16.3	17.0	16.8	17.6	18.1	18.1	18.8	18.6	19.4	19.9
	6H	16.8	17.5	17.4	18.0	18.6	19.3	20.0	19.9	20.5	21.1
	8H	17.1	17.7	17.6	18.2	18.8	20.0	20.6	20.6	21.1	21.7

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 934.699 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.)