



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L30-835-A-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  
 [ISSUE DATE] 04/30/2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2-56LED 22"ARRAYS 4'PENDANT MOUNT LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENS  
 [LUMCAT] 39-4-L30-835-A-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	3027
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	22.8
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	3001	2715	2682
55	2504	2231	2243
65	2071	1826	1948
75	1510	1448	1681
85	891	1206	1566

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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>
<b>0</b>	1156.953	1156.953	1156.953	1156.953	1156.953
<b>5</b>	1163.377	1162.793	1162.209	1162.209	1162.793
<b>10</b>	1137.680	1137.096	1137.096	1137.680	1138.848
<b>15</b>	1097.382	1098.551	1100.303	1101.471	1102.639
<b>20</b>	1064.093	1064.677	1068.181	1068.765	1068.765
<b>25</b>	974.737	977.073	979.993	981.746	981.746
<b>30</b>	900.566	903.486	907.574	909.911	910.495
<b>35</b>	838.075	842.748	849.172	852.092	853.844
<b>40</b>	735.287	741.127	749.888	755.144	757.480
<b>45</b>	653.524	661.700	673.381	681.557	684.477
<b>50</b>	546.063	554.239	570.008	582.273	586.945
<b>55</b>	450.283	460.211	479.484	494.085	500.509
<b>60</b>	359.175	369.688	390.129	411.737	420.498
<b>65</b>	282.668	293.764	320.046	349.831	359.175
<b>70</b>	205.577	219.009	253.467	285.588	298.437
<b>75</b>	134.326	150.678	188.640	223.097	235.362
<b>80</b>	78.843	99.868	141.334	176.375	188.640
<b>85</b>	34.457	57.234	98.116	131.406	143.086
<b>90</b>	0.000	25.113	58.402	85.268	95.780
<b>95</b>	0.000	10.512	37.378	61.323	70.667
<b>100</b>	0.000	0.000	22.777	41.466	47.890
<b>105</b>	0.000	0.000	14.601	27.449	33.289
<b>110</b>	0.000	0.000	0.000	18.689	22.777
<b>115</b>	0.000	0.000	0.000	14.017	16.937
<b>120</b>	0.000	0.000	0.000	11.680	12.849
<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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	421.34	N.A.	13.90
0-30	874.62	N.A.	28.90
0-40	1399.15	N.A.	46.20
0-60	2340.37	N.A.	77.30
0-80	2860.29	N.A.	94.50
0-90	2963.79	N.A.	97.90
10-90	2853.78	N.A.	94.30
20-40	977.80	N.A.	32.30
20-50	1491.14	N.A.	49.30
40-70	1259.44	N.A.	41.60
60-80	519.92	N.A.	17.20
70-80	201.70	N.A.	6.70
80-90	103.50	N.A.	3.40
90-110	56.16	N.A.	1.90
90-120	61.96	N.A.	2.00
90-130	63.00	N.A.	2.10
90-150	63.00	N.A.	2.10
90-180	63.00	N.A.	2.10
110-180	6.84	N.A.	0.20
0-180	3026.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.01
10-20	311.33
20-30	453.28
30-40	524.52
40-50	513.33
50-60	427.89
60-70	318.22
70-80	201.70
80-90	103.50
90-100	40.54
100-110	15.63
110-120	5.79
120-130	1.05
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	13.7	15.2	14.1	15.6	16.0	14.8	16.4	15.2	16.8	17.1
	3H	15.0	16.5	15.4	16.8	17.2	16.9	18.3	17.3	18.7	19.1
	4H	15.4	16.8	15.9	17.2	17.6	17.8	19.1	18.2	19.5	19.9
	6H	15.7	17.0	16.1	17.4	17.8	18.7	19.9	19.1	20.3	20.7
	8H	15.8	17.0	16.2	17.4	17.8	19.1	20.3	19.6	20.7	21.2
	12H	15.8	16.9	16.3	17.4	17.8	19.5	20.7	20.0	21.1	21.6

UGR Viewed Endwise

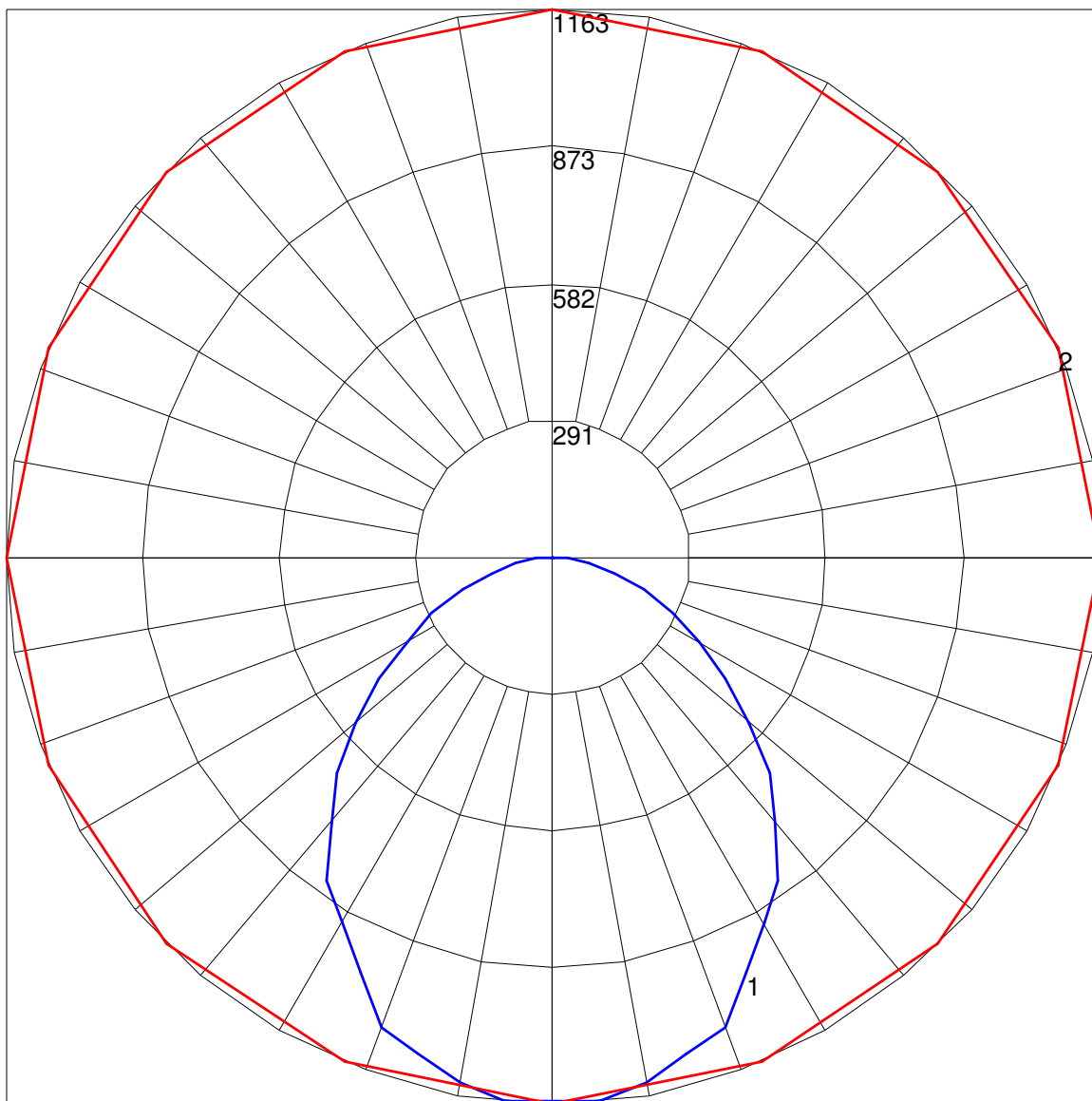
4H	2H	14.3	15.7	14.8	16.1	16.5	15.3	16.6	15.7	17.0	17.4
	3H	15.9	17.0	16.4	17.5	17.9	17.5	18.7	18.0	19.1	19.5
	4H	16.4	17.5	16.9	17.9	18.4	18.6	19.6	19.0	20.1	20.5
	6H	16.8	17.7	17.3	18.2	18.7	19.7	20.5	20.1	21.0	21.5
	8H	16.9	17.7	17.4	18.2	18.7	20.2	21.0	20.7	21.5	22.0
	12H	17.0	17.7	17.5	18.2	18.8	20.7	21.5	21.3	22.0	22.5

8H	4H	16.9	17.7	17.4	18.2	18.7	18.8	19.6	19.3	20.1	20.6
	6H	17.4	18.1	17.9	18.6	19.1	20.0	20.7	20.5	21.2	21.8
	8H	17.5	18.2	18.1	18.7	19.3	20.6	21.3	21.2	21.8	22.4
	12H	17.7	18.2	18.2	18.8	19.4	21.4	21.9	21.9	22.5	23.1

12H	4H	17.0	17.7	17.5	18.3	18.8	18.8	19.5	19.3	20.1	20.6
	6H	17.5	18.2	18.1	18.7	19.3	20.0	20.7	20.6	21.2	21.8
	8H	17.8	18.4	18.3	18.9	19.5	20.7	21.3	21.3	21.8	22.4

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1163.377 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.)