



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-8-L60-835-A-(L50)-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] 10-04-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 96 INCH LED PENDANT MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39-8-L60-835-A-(L50)-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	5205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	37
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)	8.00 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	2639	2368	2309
55	2221	1955	1931
65	1864	1610	1677
75	1399	1291	1447
85	921	1101	1348

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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	1989.409	1989.409	1989.409	1989.409	1989.409
5	2000.456	1999.452	1998.448	1998.448	1999.452
10	1956.269	1955.265	1955.265	1956.269	1958.278
15	1886.976	1888.985	1891.998	1894.006	1896.015
20	1829.734	1830.739	1836.764	1837.768	1837.768
25	1676.085	1680.102	1685.123	1688.136	1688.136
30	1548.546	1553.567	1560.597	1564.614	1565.618
35	1441.092	1449.126	1460.172	1465.194	1468.206
40	1264.345	1274.387	1289.451	1298.489	1302.506
45	1123.750	1137.810	1157.895	1171.954	1176.975
50	938.969	953.029	980.143	1001.232	1009.266
55	774.273	791.345	824.485	849.591	860.638
60	617.611	635.687	670.836	707.993	723.056
65	486.055	505.135	550.326	601.543	617.611
70	353.494	376.592	435.842	491.076	513.169
75	230.976	259.095	324.371	383.622	404.711
80	135.573	171.726	243.027	303.282	324.371
85	59.250	98.416	168.713	225.955	246.040
90	0.000	43.183	100.425	146.620	164.696
95	0.000	18.076	64.272	105.446	121.514
100	0.000	0.000	39.166	71.301	82.348
105	0.000	0.000	25.106	47.200	57.242
110	0.000	0.000	0.000	32.136	39.166
115	0.000	0.000	0.000	24.102	29.123
120	0.000	0.000	0.000	20.085	22.093
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	724.51	N.A.	13.90
0-30	1503.93	N.A.	28.90
0-40	2405.87	N.A.	46.20
0-60	4024.32	N.A.	77.30
0-80	4918.34	N.A.	94.50
0-90	5096.31	N.A.	97.90
10-90	4907.14	N.A.	94.30
20-40	1681.36	N.A.	32.30
20-50	2564.04	N.A.	49.30
40-70	2165.64	N.A.	41.60
60-80	894.01	N.A.	17.20
70-80	346.83	N.A.	6.70
80-90	177.97	N.A.	3.40
90-110	96.57	N.A.	1.90
90-120	106.54	N.A.	2.00
90-130	108.33	N.A.	2.10
90-150	108.33	N.A.	2.10
90-180	108.33	N.A.	2.10
110-180	11.76	N.A.	0.20
0-180	5204.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.17
10-20	535.35
20-30	779.42
30-40	901.93
40-50	882.69
50-60	735.77
60-70	547.18
70-80	346.83
80-90	177.97
90-100	69.70
100-110	26.87
110-120	9.96
120-130	1.80
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

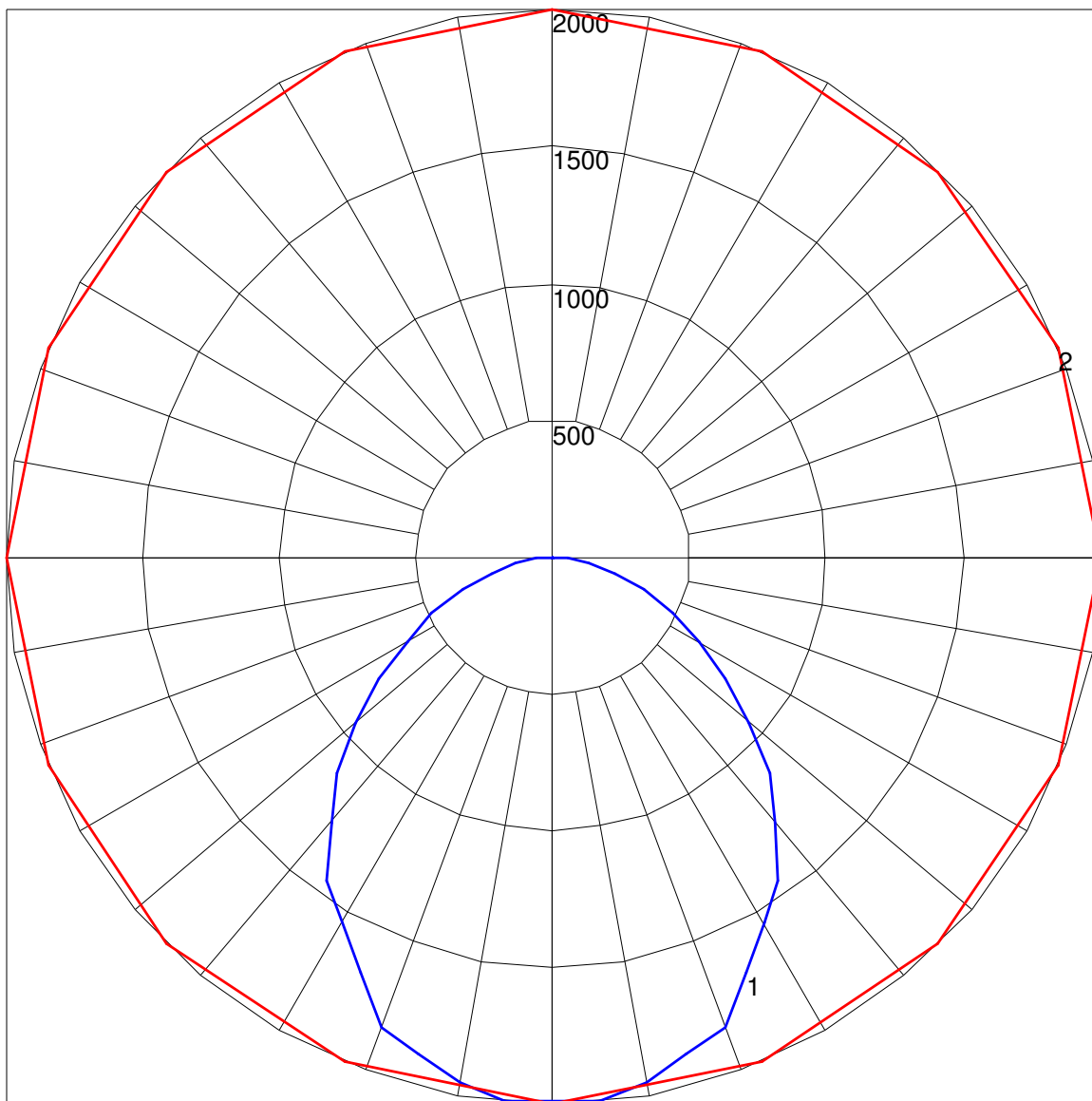
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UGR TABLE - CORRECTED

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	13.2	14.8	13.6	15.1	15.5	14.4	16.0	14.8	16.4	16.7
	3H	14.5	16.0	15.0	16.3	16.8	16.5	17.9	16.9	18.3	18.7
	4H	15.0	16.3	15.4	16.7	17.1	17.4	18.8	17.8	19.1	19.6
	6H	15.2	16.5	15.7	16.9	17.3	18.3	19.6	18.8	20.0	20.4
	8H	15.3	16.5	15.8	16.9	17.4	18.8	20.0	19.3	20.4	20.9
	12H	15.3	16.5	15.8	16.9	17.4	19.3	20.4	19.8	20.9	21.3
4H	2H	13.9	15.2	14.3	15.6	16.0	14.9	16.2	15.3	16.6	17.0
	3H	15.5	16.6	15.9	17.0	17.5	17.2	18.3	17.6	18.7	19.2
	4H	16.0	17.0	16.4	17.5	17.9	18.2	19.2	18.7	19.7	20.2
	6H	16.4	17.2	16.8	17.7	18.2	19.3	20.2	19.8	20.7	21.2
	8H	16.4	17.3	16.9	17.8	18.3	19.9	20.7	20.4	21.2	21.7
	12H	16.5	17.3	17.0	17.8	18.3	20.5	21.3	21.0	21.8	22.3
8H	4H	16.4	17.3	16.9	17.8	18.3	18.4	19.3	18.9	19.7	20.3
	6H	16.9	17.6	17.5	18.2	18.7	19.7	20.4	20.2	20.9	21.4
	8H	17.1	17.7	17.6	18.3	18.8	20.4	21.0	20.9	21.5	22.1
	12H	17.2	17.8	17.8	18.3	18.9	21.1	21.7	21.7	22.2	22.8
12H	4H	16.5	17.3	17.1	17.8	18.3	18.4	19.2	18.9	19.7	20.2
	6H	17.1	17.8	17.7	18.3	18.8	19.7	20.4	20.3	20.9	21.4
	8H	17.3	17.9	17.9	18.4	19.0	20.5	21.0	21.0	21.6	22.2

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 2000.456 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.)