

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L100-RGB835-DMX-UNV WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 17874.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABS

[ISSUEDATE] 30 NOB, 2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89 INCH LED STRIP w/WHITE REFLECTOR

[LUMINAIRE] NO ACRYLIC OVER LED BOARDS

[LUMINAIRE] 0-10V DIMMING DRIVER

[LUMCAT] 75-8-L100-RGB835-DMX-UNV white only

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR

[_SEARCH_MOUNTING] SURFACE, SUSPENDED, WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10408
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	89.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22979	21990	21674
55	22425	21198	20754
65	20914	19247	18634
75	17665	15576	14913
85	9252	8855	7284

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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	3534.537	3534.537	3534.537	3534.537	3534.537
5	3558.989	3536.982	3522.311	3512.530	3508.862
10	3521.088	3497.859	3480.742	3470.961	3466.071
15	3461.181	3433.061	3415.944	3401.273	3406.164
20	3368.263	3345.034	3324.249	3309.578	3318.136
25	3249.671	3230.109	3201.989	3189.763	3184.873
30	3116.407	3088.288	3056.500	3046.719	3019.822
35	2947.689	2924.459	2887.781	2879.223	2852.326
40	2750.850	2700.723	2681.162	2667.713	2661.600
45	2519.779	2459.871	2448.868	2436.642	2428.084
50	2265.478	2210.461	2200.680	2195.790	2167.670
55	1995.283	1936.598	1928.040	1928.040	1903.588
60	1699.414	1646.842	1622.390	1634.616	1597.938
65	1371.757	1332.634	1304.514	1327.744	1278.840
70	1039.210	990.306	975.635	1000.087	962.186
75	710.331	662.649	662.649	662.649	647.978
80	377.783	370.448	370.448	364.335	349.664
85	125.928	133.263	141.822	134.486	123.483
90	12.226	12.226	17.116	12.226	12.226
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
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	1301.38	N.A.	12.50
0-30	2781.41	N.A.	26.70
0-40	4591.59	N.A.	44.10
0-60	8212.29	N.A.	78.90
0-80	10228.18	N.A.	98.30
0-90	10404.51	N.A.	100.00
10-90	10069.25	N.A.	96.70
20-40	3290.2	N.A.	31.60
20-50	5184.38	N.A.	49.80
40-70	4926.42	N.A.	47.30
60-80	2015.89	N.A.	19.40
70-80	710.17	N.A.	6.80
80-90	176.34	N.A.	1.70
90-110	3.68	N.A.	0.00
90-120	3.68	N.A.	0.00
90-130	3.68	N.A.	0.00
90-150	3.68	N.A.	0.00
90-180	3.68	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10408.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	335.26
10-20	966.12
20-30	1480.02
30-40	1810.18
40-50	1894.18
50-60	1726.52
60-70	1305.72
70-80	710.17
80-90	176.34
90-100	3.68
100-110	0.00
110-120	0.00
120-130	0.00
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	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

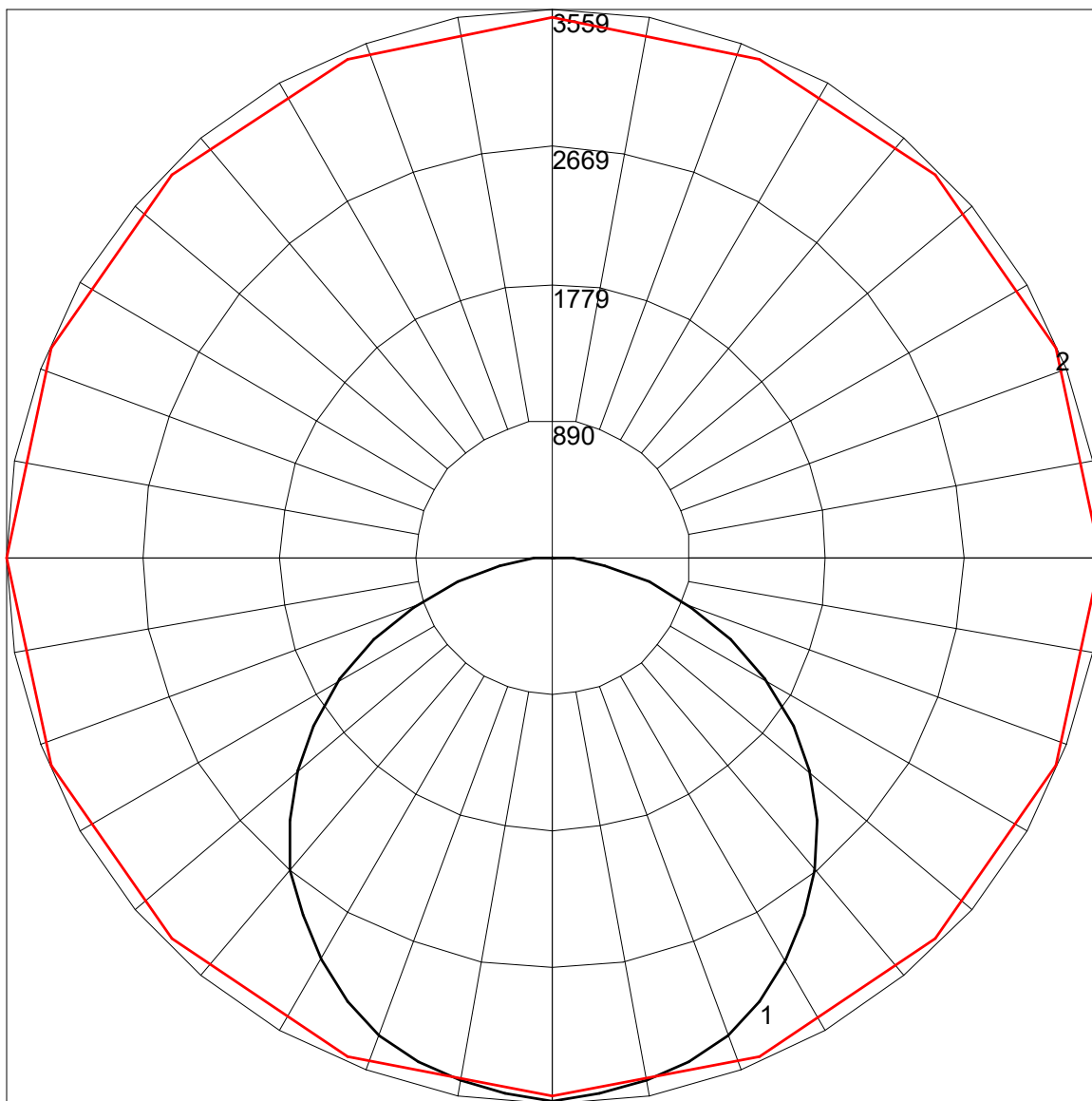
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UGR TABLE - CORRECTED

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	22.8	24.5	23.2	24.8	25.1	22.8	24.5	23.2	24.8	25.1
	3H	24.6	26.1	25.0	26.4	26.8	24.6	26.1	24.9	26.4	26.7
	4H	25.2	26.6	25.6	27.0	27.4	25.2	26.6	25.6	26.9	27.3
	6H	25.6	26.9	26.0	27.3	27.7	25.5	26.8	25.9	27.2	27.6
	8H	25.7	27.0	26.1	27.4	27.8	25.6	26.9	26.1	27.3	27.7
	12H	25.8	27.0	26.2	27.3	27.8	25.7	26.9	26.1	27.3	27.7
4H	2H	23.4	24.9	23.8	25.2	25.6	23.4	24.8	23.8	25.2	25.6
	3H	25.4	26.6	25.8	27.0	27.4	25.4	26.6	25.8	27.0	27.4
	4H	26.1	27.2	26.6	27.6	28.0	26.1	27.2	26.5	27.6	28.0
	6H	26.6	27.6	27.1	28.0	28.5	26.6	27.5	27.1	28.0	28.4
	8H	26.8	27.6	27.2	28.1	28.5	26.7	27.6	27.2	28.1	28.5
	12H	26.8	27.6	27.3	28.1	28.6	26.8	27.6	27.3	28.1	28.5
8H	4H	26.4	27.3	26.9	27.7	28.2	26.4	27.2	26.8	27.7	28.1
	6H	27.0	27.7	27.5	28.2	28.7	27.0	27.7	27.5	28.2	28.6
	8H	27.2	27.8	27.7	28.3	28.8	27.2	27.8	27.7	28.3	28.8
	12H	27.3	27.9	27.8	28.4	28.9	27.3	27.9	27.8	28.4	28.9
12H	4H	26.4	27.2	26.9	27.7	28.1	26.4	27.2	26.9	27.6	28.1
	6H	27.1	27.7	27.6	28.2	28.7	27.0	27.7	27.5	28.1	28.7
	8H	27.3	27.8	27.8	28.3	28.9	27.2	27.8	27.7	28.3	28.9

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 3558.989 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)