H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-L100-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 17874.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABS
[ISSUEDATE] 26 JUN 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-L100-840-DIM-UNV
[LAMPCAT] HLM 80 CRI 4000K CCT
[_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	10378
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	65.9
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	22911	21925	21610
55	22359	21136	20693
65	20853	19190	18579
75	17613	15530	14869
85	9225	8828	7262

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3524.129	3524.129	3524.129	3524.129	3524.129
5	3548.509	3526.567	3511.939	3502.187	3498.530
10	3510.720	3487.559	3470.493	3460.741	3455.865
15	3450.989	3422.952	3405.886	3391.258	3396.134
20	3358.345	3335.184	3314.461	3299.833	3308.366
25	3240.102	3220.598	3192.561	3180.371	3175.495
30	3107.231	3079.194	3047.500	3037.748	3010.930
35	2939.009	2915.848	2879.278	2870.745	2843.927
40	2742.750	2692.771	2673.267	2659.858	2653.763
45	2512.359	2452.628	2441.657	2429.467	2420.934
50	2258.807	2203.952	2194.200	2189.324	2161.287
55	1989.408	1930.896	1922.363	1922.363	1897.983
60	1694.410	1641.993	1617.613	1629.803	1593.233
65	1367.718	1328.710	1300.673	1323.834	1275.074
70	1036.150	987.390	972.762	997.142	959.353
75	708.239	660.698	660.698	660.698	646.070
80	376.671	369.357	369.357	363.262	348.634
85	125.557	132.871	141.404	134.090	123.119
90	12.190	12.190	17.066	12.190	12.190
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	1297.55	N.A.	12.50
0-30	2773.22	N.A.	26.70
0-40	4578.07	N.A.	44.10
0-60	8188.1	N.A.	78.90
0-80	10198.06	N.A.	98.30
0-90	10373.88	N.A.	100.00
10-90	10039.6	N.A.	96.70
20-40	3280.52	N.A.	31.60
20-50	5169.11	N.A.	49.80
40-70	4911.92	N.A.	47.30
60-80	2009.96	N.A.	19.40
70-80	708.08	N.A.	6.80
80-90	175.82	N.A.	1.70
90-110	3.67	N.A.	0.00
90-120	3.67	N.A.	0.00
90-130	3.67	N.A.	0.00
90-150	3.67	N.A.	0.00
90-180	3.67	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10377.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	334.27
10-20	963.28
20-30	1475.67
30-40	1804.85
40-50	1888.6
50-60	1721.44
60-70	1301.88
70-80	708.08
80-90	175.82
90-100	3.67
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	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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

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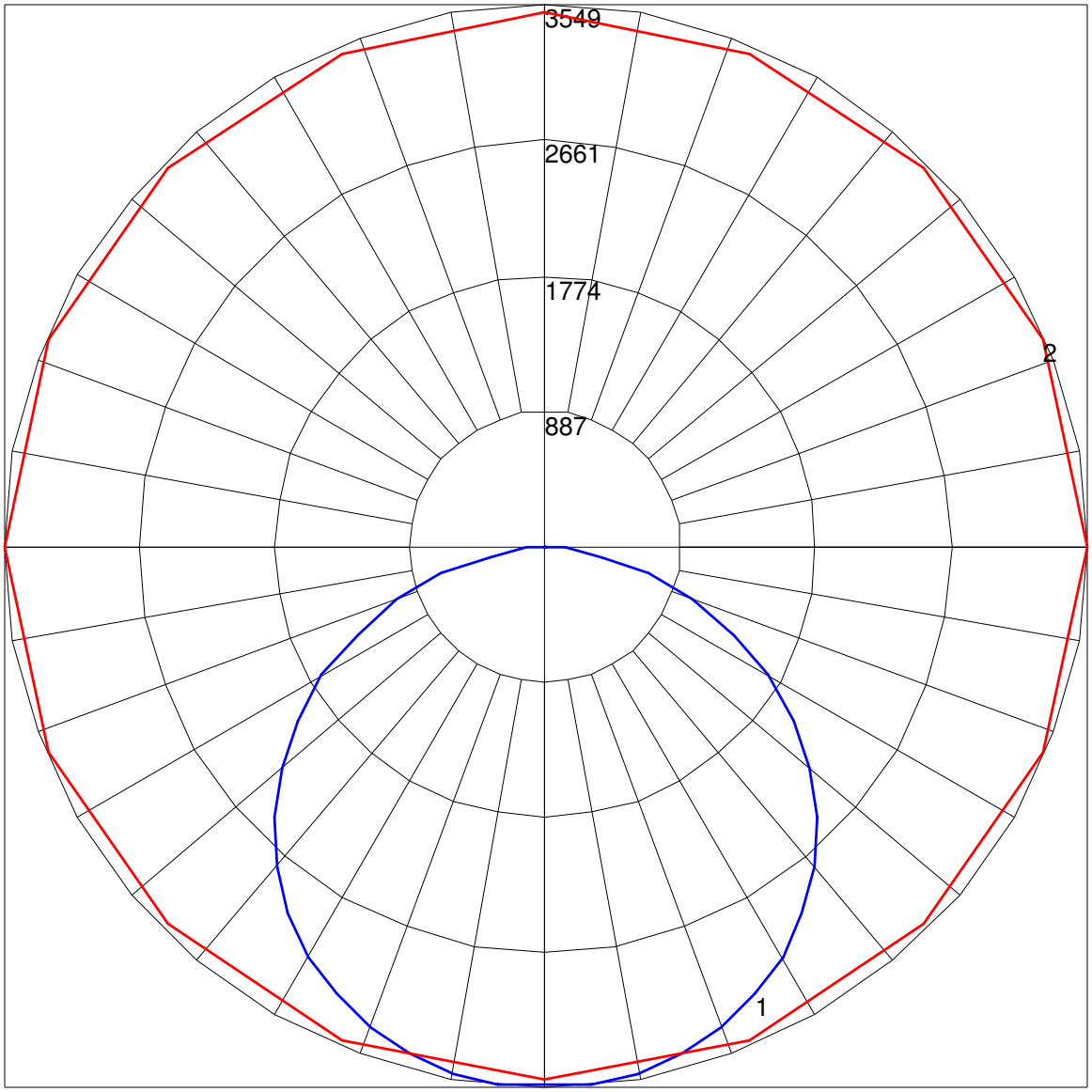
POLAR GRAPH



Maximum Candela = 3548.509 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.)

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