



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L65-8TW2-DMA-DALI-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17956.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-12-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS

[LUMCAT] 75L-4-L65-8TW2-DMA-DALI-UNV 4000k

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[_SEARCH_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6621
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	64.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.70 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	42655	37482	32556
55	36794	31278	26520
65	30979	25209	21088
75	24339	19180	16151
85	16654	11991	11325

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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	2949.075	2949.075	2949.075	2949.075	2949.075
5	3009.090	2942.407	2932.404	2905.731	2882.392
10	2952.409	2900.730	2877.390	2854.051	2819.042
15	2862.387	2820.710	2782.367	2755.693	2707.348
20	2742.356	2702.346	2652.334	2608.990	2553.976
25	2588.985	2547.307	2475.623	2425.610	2352.258
30	2412.273	2362.261	2267.237	2208.889	2115.532
35	2207.222	2152.208	2037.179	1953.825	1867.136
40	1975.497	1917.149	1793.785	1690.425	1600.403
45	1732.102	1660.418	1522.050	1435.361	1321.999
50	1475.371	1413.689	1268.652	1173.629	1085.273
55	1211.972	1173.629	1030.259	936.902	873.553
60	968.577	935.235	811.871	736.852	683.505
65	751.856	711.846	611.821	561.808	511.795
70	551.805	501.793	433.442	391.765	361.758
75	361.758	320.081	285.072	246.729	240.060
80	208.386	173.377	155.039	135.034	138.368
85	83.354	60.015	60.015	50.013	56.681
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75L-4-L65-8TW2-DMA-DALI-UNV 4000K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1062.49	N.A.	16.00
0-30	2202.61	N.A.	33.30
0-40	3479.94	N.A.	52.60
0-60	5606.7	N.A.	84.70
0-80	6544.72	N.A.	98.90
0-90	6620.72	N.A.	100.00
10-90	6342.54	N.A.	95.80
20-40	2417.45	N.A.	36.50
20-50	3604.57	N.A.	54.40
40-70	2753.18	N.A.	41.60
60-80	938.03	N.A.	14.20
70-80	311.61	N.A.	4.70
80-90	76.00	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6620.72	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	278.18
10-20	784.31
20-30	1140.13
30-40	1277.33
40-50	1187.11
50-60	939.64
60-70	626.42
70-80	311.61
80-90	76.00
90-100	0.00
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	44	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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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	24.5	26.0	24.9	26.4	26.7	UGR Viewed Endwise	22.8	24.3	23.1	24.6	24.9
	3H	26.0	27.4	26.4	27.7	28.1	24.1	25.5	24.4	25.8	26.1	26.1
	4H	26.5	27.8	26.9	28.1	28.5	24.5	25.8	24.9	26.1	26.5	26.5
	6H	26.9	28.1	27.3	28.4	28.8	24.8	26.0	25.2	26.4	26.7	26.7
	8H	27.0	28.1	27.4	28.5	28.9	24.9	26.0	25.3	26.4	26.8	26.8
	12H	27.0	28.1	27.5	28.5	28.9	24.9	26.0	25.4	26.4	26.8	26.8

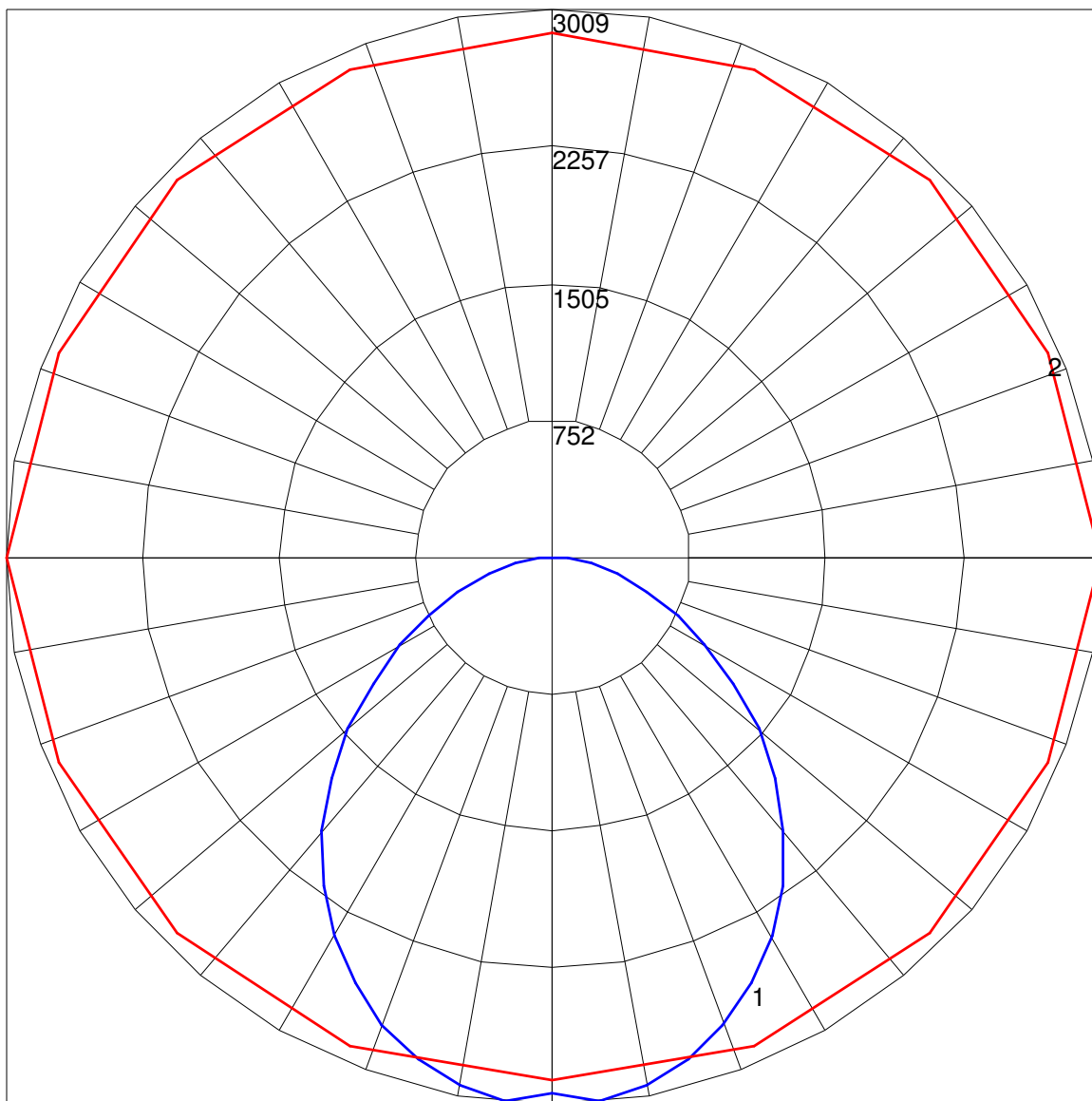
4H	2H	24.8	26.1	25.2	26.5	26.9	23.4	24.7	23.8	25.0	25.4	25.4
	3H	26.5	27.6	26.9	28.0	28.4	24.9	26.0	25.3	26.4	26.8	26.8
	4H	27.1	28.1	27.6	28.5	29.0	25.4	26.4	25.8	26.8	27.2	27.2
	6H	27.6	28.5	28.1	28.9	29.4	25.8	26.6	26.3	27.1	27.5	27.5
	8H	27.8	28.5	28.2	29.0	29.5	25.9	26.7	26.4	27.2	27.6	27.6
	12H	27.9	28.6	28.3	29.0	29.5	26.0	26.7	26.5	27.2	27.7	27.7

8H	4H	27.3	28.1	27.7	28.5	29.0	25.7	26.5	26.2	26.9	27.4	27.4
	6H	27.8	28.5	28.3	29.0	29.4	26.2	26.8	26.7	27.3	27.8	27.8
	8H	28.0	28.6	28.5	29.1	29.6	26.3	26.9	26.9	27.4	27.9	27.9
	12H	28.2	28.7	28.7	29.2	29.7	26.5	27.0	27.0	27.5	28.0	28.0

12H	4H	27.3	28.0	27.8	28.5	28.9	25.7	26.4	26.2	26.9	27.4	27.4
	6H	27.8	28.4	28.4	28.9	29.4	26.2	26.8	26.8	27.3	27.8	27.8
	8H	28.1	28.6	28.6	29.1	29.6	26.4	26.9	26.9	27.4	28.0	28.0

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 3009.09 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.)