



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L65-8TW-DMA-DIM-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] 23-JUL-2021

[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-L65-8TW-DMA-DIM-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

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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	225	225	225	225	220	220	220	220	210	210	210	201	201	201	193	193	193	189
1	208	200	192	186	203	195	189	183	187	182	177	180	176	171	173	170	166	163
2	191	176	164	154	186	173	162	153	166	157	149	160	152	146	154	148	143	139
3	175	156	142	131	170	154	140	130	148	137	127	143	133	125	138	130	123	119
4	161	140	124	113	157	137	123	112	133	120	110	129	118	109	125	115	107	103
5	149	126	110	98	145	124	109	98	120	107	97	116	105	96	113	103	95	91
6	138	114	98	87	135	112	97	86	109	96	86	106	94	85	103	92	84	80
7	128	104	88	77	125	103	88	77	100	86	76	97	85	76	95	84	75	72
8	120	95	80	69	117	94	79	69	92	78	69	89	77	68	87	76	68	65
9	112	88	73	63	110	87	73	63	85	72	63	83	71	62	81	70	62	59
10	105	81	67	57	103	80	67	57	79	66	57	77	65	57	75	64	57	53

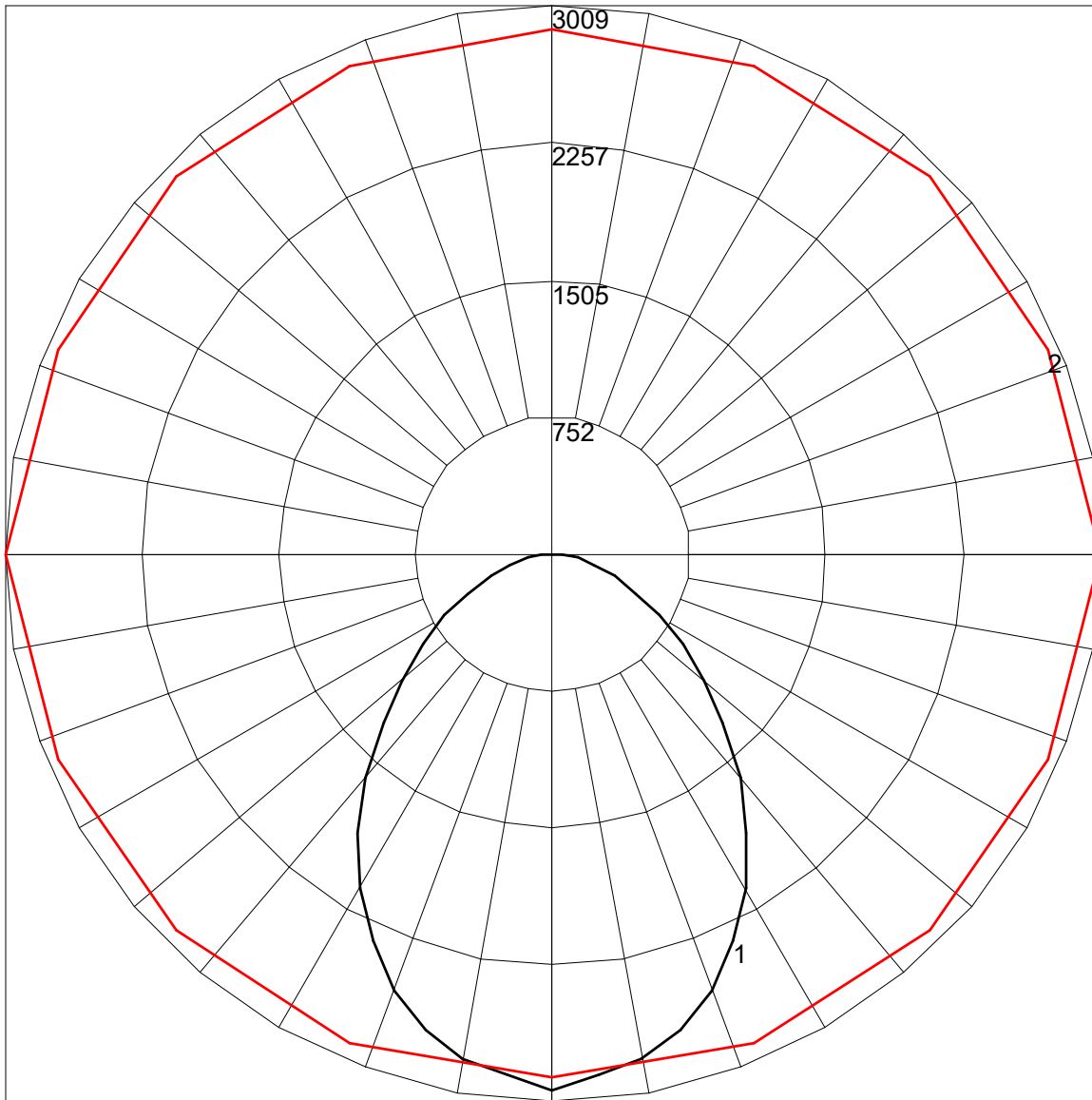
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UGR TABLE - CORRECTED

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	22.3	23.8	22.7	24.2	24.5	20.6	22.1	20.9	22.4	22.7
	3H	23.8	25.2	24.2	25.5	25.9	21.9	23.3	22.2	23.6	23.9
	4H	24.3	25.6	24.7	25.9	26.3	22.3	23.6	22.7	23.9	24.3
	6H	24.7	25.9	25.1	26.2	26.6	22.6	23.8	23.0	24.2	24.5
	8H	24.8	25.9	25.2	26.3	26.7	22.7	23.8	23.1	24.2	24.6
	12H	24.8	25.9	25.3	26.3	26.7	22.7	23.8	23.2	24.2	24.6
4H	2H	22.6	23.9	23.0	24.3	24.7	21.2	22.5	21.6	22.8	23.2
	3H	24.3	25.4	24.7	25.8	26.2	22.7	23.8	23.1	24.2	24.6
	4H	24.9	25.9	25.4	26.3	26.8	23.2	24.2	23.6	24.6	25.0
	6H	25.4	26.3	25.9	26.7	27.2	23.6	24.4	24.1	24.9	25.3
	8H	25.6	26.3	26.0	26.8	27.3	23.7	24.5	24.2	25.0	25.4
	12H	25.7	26.4	26.1	26.8	27.3	23.8	24.5	24.3	25.0	25.5
8H	4H	25.1	25.9	25.5	26.3	26.8	23.5	24.3	24.0	24.7	25.2
	6H	25.6	26.3	26.1	26.8	27.2	24.0	24.6	24.5	25.1	25.6
	8H	25.8	26.4	26.3	26.9	27.4	24.1	24.7	24.7	25.2	25.7
	12H	26.0	26.5	26.5	27.0	27.5	24.3	24.8	24.8	25.3	25.8
12H	4H	25.1	25.8	25.6	26.3	26.7	23.5	24.2	24.0	24.7	25.2
	6H	25.6	26.2	26.2	26.7	27.2	24.0	24.6	24.6	25.1	25.6
	8H	25.9	26.4	26.4	26.9	27.4	24.2	24.7	24.7	25.2	25.8

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 3009.09 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.)