



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-835-DMA_.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] 22-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-L50-835-DMA-DIM-UNV

[_SEARCH_SOURCE]TYPE]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	5131
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	42.2
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	33054	29046	25228
55	28513	24238	20551
65	24006	19535	16341
75	18861	14863	12516
85	12905	9292	8776

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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	2285.311	2285.311	2285.311	2285.311	2285.311
5	2331.818	2280.143	2272.392	2251.722	2233.636
10	2287.895	2247.847	2229.761	2211.674	2184.545
15	2218.134	2185.837	2156.124	2135.454	2097.990
20	2125.119	2094.115	2055.359	2021.770	1979.139
25	2006.268	1973.971	1918.421	1879.665	1822.823
30	1869.330	1830.574	1756.938	1711.722	1639.378
35	1710.431	1667.799	1578.660	1514.067	1446.890
40	1530.861	1485.646	1390.048	1309.952	1240.191
45	1342.249	1286.698	1179.474	1112.297	1024.450
50	1143.301	1095.502	983.110	909.474	841.005
55	939.187	909.474	798.373	726.029	676.938
60	750.574	724.737	629.139	571.005	529.665
65	582.632	551.627	474.115	435.359	396.603
70	427.608	388.852	335.885	303.588	280.335
75	280.335	248.038	220.909	191.196	186.029
80	161.483	134.354	120.144	104.641	107.225
85	64.593	46.507	46.507	38.756	43.923
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	823.35	N.A.	16.00
0-30	1706.86	N.A.	33.30
0-40	2696.69	N.A.	52.60
0-60	4344.77	N.A.	84.70
0-80	5071.67	N.A.	98.90
0-90	5130.56	N.A.	100.00
10-90	4914.99	N.A.	95.80
20-40	1873.34	N.A.	36.50
20-50	2793.27	N.A.	54.40
40-70	2133.5	N.A.	41.60
60-80	726.90	N.A.	14.20
70-80	241.47	N.A.	4.70
80-90	58.89	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	5130.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.57
10-20	607.78
20-30	883.51
30-40	989.83
40-50	919.92
50-60	728.15
60-70	485.43
70-80	241.47
80-90	58.89
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	299	299	299	299	292	292	292	292	279	279	279	267	267	267	256	256	256	251
1	276	265	255	246	269	259	250	242	249	241	235	239	233	228	230	225	221	216
2	253	234	218	205	246	229	215	203	220	208	198	212	202	193	205	197	189	184
3	232	208	189	174	226	204	186	172	196	181	169	190	177	166	183	173	163	158
4	214	186	165	149	208	182	163	148	176	160	146	171	156	144	165	153	143	137
5	198	167	146	130	192	164	144	130	159	142	128	154	139	127	150	136	126	120
6	183	151	130	115	179	149	129	115	145	127	114	141	125	113	137	123	112	107
7	170	138	117	103	166	136	116	102	132	114	101	129	113	101	125	111	100	95
8	159	127	106	92	155	125	105	92	122	104	91	119	103	91	116	101	90	86
9	149	117	97	84	146	115	96	83	112	95	83	110	94	83	107	93	82	78
10	140	108	89	76	137	107	88	76	104	87	76	102	86	75	100	85	75	71

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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	20.4	21.9	20.8	22.3	22.6	18.7	20.2	19.0	20.5	20.8
	3H	21.9	23.3	22.3	23.6	24.0	20.0	21.4	20.3	21.7	22.0
	4H	22.4	23.7	22.8	24.1	24.4	20.4	21.7	20.8	22.0	22.4
	6H	22.8	24.0	23.2	24.3	24.7	20.7	21.9	21.1	22.3	22.7
	8H	22.9	24.0	23.3	24.4	24.8	20.8	21.9	21.2	22.3	22.7
	12H	22.9	24.0	23.4	24.4	24.8	20.8	21.9	21.3	22.3	22.7

UGR Viewed Endwise

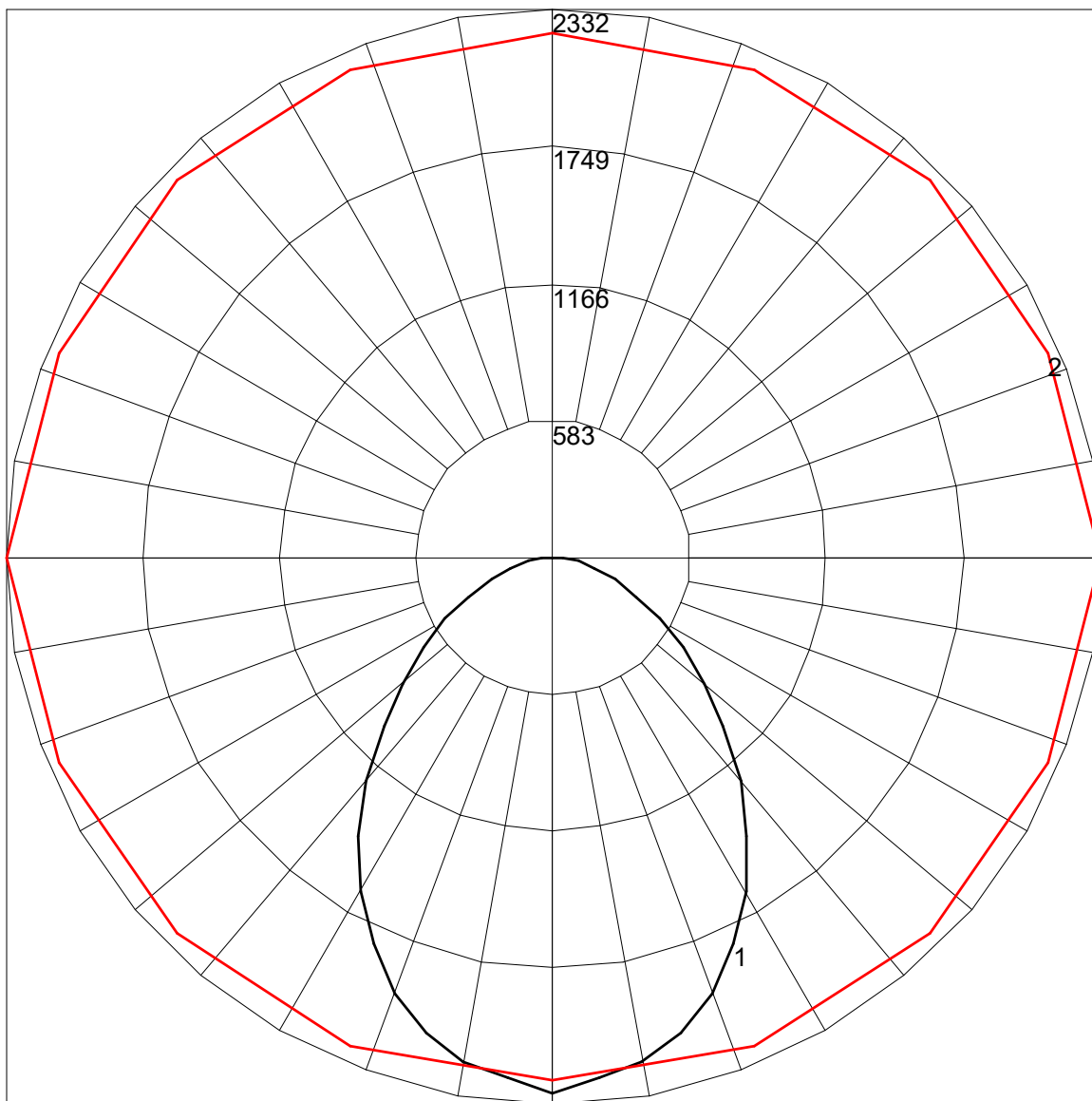
4H	2H	20.7	22.0	21.1	22.4	22.8	19.3	20.6	19.7	20.9	21.3
	3H	22.4	23.5	22.8	23.9	24.3	20.8	21.9	21.2	22.3	22.7
	4H	23.1	24.0	23.5	24.4	24.9	21.3	22.3	21.8	22.7	23.1
	6H	23.5	24.4	24.0	24.8	25.3	21.7	22.5	22.2	23.0	23.5
	8H	23.7	24.4	24.1	24.9	25.4	21.8	22.6	22.3	23.1	23.5
	12H	23.8	24.5	24.2	24.9	25.4	21.9	22.6	22.4	23.1	23.6

8H	4H	23.2	24.0	23.6	24.4	24.9	21.6	22.4	22.1	22.8	23.3
	6H	23.7	24.4	24.2	24.9	25.3	22.1	22.7	22.6	23.2	23.7
	8H	23.9	24.5	24.4	25.0	25.5	22.2	22.8	22.8	23.3	23.8
	12H	24.1	24.6	24.6	25.1	25.6	22.4	22.9	22.9	23.4	23.9

12H	4H	23.2	23.9	23.7	24.4	24.8	21.6	22.3	22.1	22.8	23.3
	6H	23.7	24.3	24.3	24.8	25.3	22.1	22.7	22.7	23.2	23.7
	8H	24.0	24.5	24.5	25.0	25.5	22.3	22.8	22.8	23.3	23.9

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 2331.818 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.)