



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L38-835-A12125_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 22-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-4-L38-835-AF12125-DIM-UNV

[_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	4529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	31.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.71 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	30307	23433	18747
55	24267	16423	13727
65	17156	10978	11453
75	13037	8381	10709
85	13366	9909	11292

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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	2182.214	2182.214	2182.214	2182.214	2182.214
5	2219.140	2179.832	2167.920	2159.582	2153.626
10	2190.552	2156.009	2147.670	2138.141	2127.421
15	2147.670	2109.553	2091.686	2102.406	2085.730
20	2078.583	2041.657	2026.172	2032.127	2026.172
25	1978.525	1949.937	1928.496	1904.673	1901.099
30	1868.938	1832.012	1766.498	1714.086	1677.160
35	1725.998	1672.396	1559.235	1424.633	1313.855
40	1515.162	1465.133	1269.782	1062.519	986.285
45	1270.973	1240.003	982.711	819.521	786.169
50	1038.696	986.285	748.052	640.847	611.068
55	825.477	717.081	558.656	490.760	466.937
60	609.876	490.760	412.143	365.688	364.496
65	430.011	341.864	275.159	276.350	287.071
70	295.409	231.086	184.631	215.601	220.366
75	200.116	158.425	128.646	157.234	164.381
80	140.557	113.161	100.058	109.587	113.161
85	69.088	64.323	51.220	58.367	58.367
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	800.62	N.A.	17.70
0-30	1685.38	N.A.	37.20
0-40	2641.78	N.A.	58.30
0-60	3977.17	N.A.	87.80
0-80	4466.54	N.A.	98.60
0-90	4529.5	N.A.	100.00
10-90	4322.76	N.A.	95.40
20-40	1841.16	N.A.	40.60
20-50	2630.57	N.A.	58.10
40-70	1653.72	N.A.	36.50
60-80	489.37	N.A.	10.80
70-80	171.04	N.A.	3.80
80-90	62.96	N.A.	1.40
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	4529.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.74
10-20	593.88
20-30	884.76
30-40	956.40
40-50	789.41
50-60	545.98
60-70	318.33
70-80	171.04
80-90	62.96
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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

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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	22.0	23.5	22.4	23.8	24.1	19.4	20.8	19.7	21.1	21.5
	3H	23.2	24.5	23.5	24.8	25.2	20.9	22.2	21.3	22.5	22.9
	4H	23.6	24.8	24.0	25.2	25.6	21.5	22.7	21.9	23.1	23.5
	6H	24.1	25.2	24.5	25.6	25.9	22.1	23.2	22.5	23.6	24.0
	8H	24.2	25.3	24.7	25.7	26.1	22.3	23.4	22.8	23.8	24.2
	12H	24.4	25.4	24.8	25.8	26.2	22.5	23.6	23.0	23.9	24.4

UGR Viewed Endwise

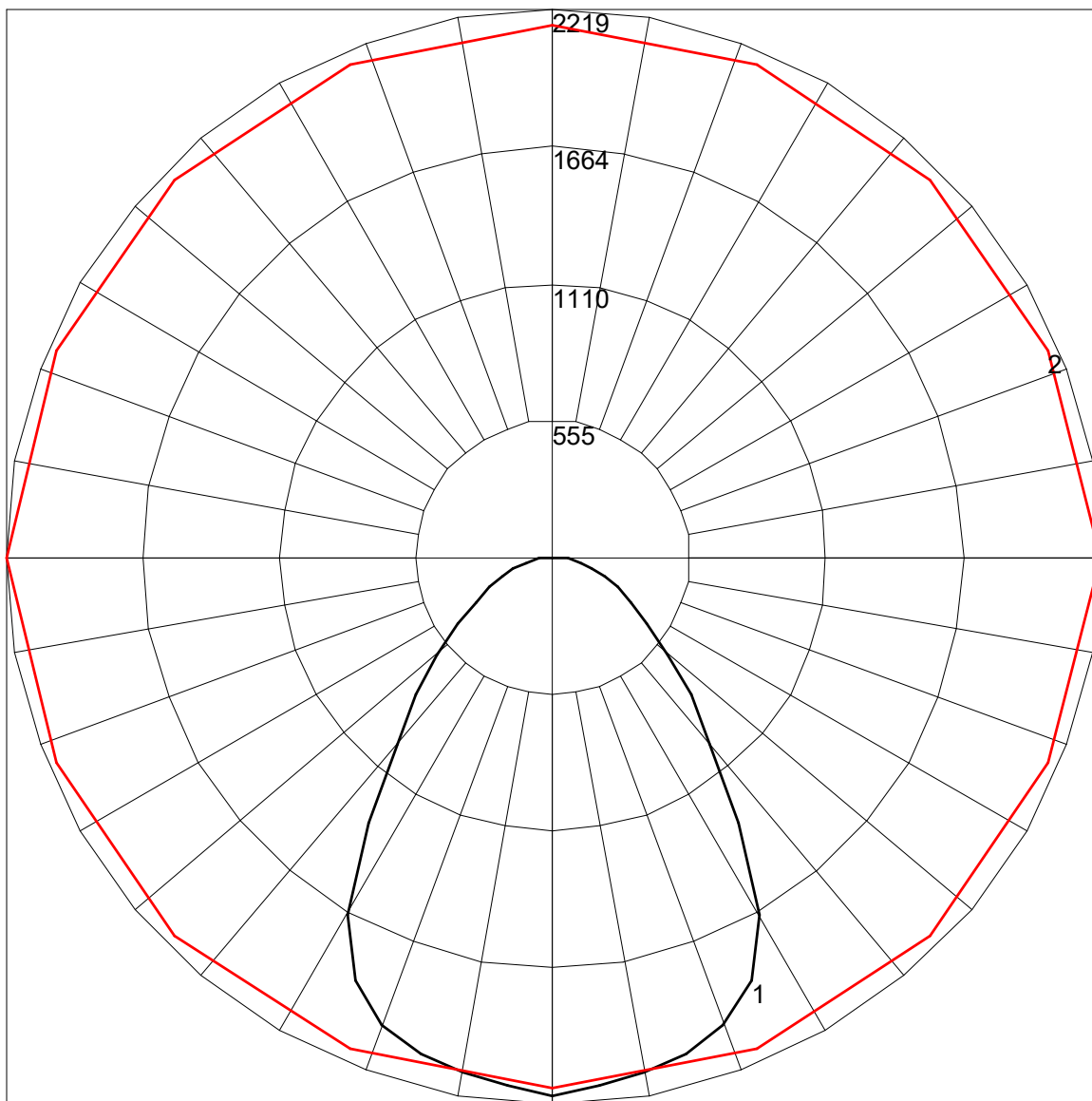
4H	2H	22.1	23.4	22.5	23.7	24.1	19.8	21.1	20.2	21.4	21.8
	3H	23.5	24.5	23.9	24.9	25.3	21.5	22.5	21.9	22.9	23.3
	4H	24.0	24.9	24.4	25.3	25.8	22.3	23.2	22.8	23.7	24.1
	6H	24.6	25.4	25.1	25.9	26.3	23.1	23.9	23.6	24.3	24.8
	8H	24.9	25.6	25.3	26.1	26.5	23.4	24.1	23.8	24.6	25.0
	12H	25.1	25.8	25.6	26.2	26.7	23.6	24.3	24.1	24.8	25.3

8H	4H	24.1	24.8	24.6	25.3	25.8	22.5	23.3	23.0	23.7	24.2
	6H	24.8	25.4	25.3	25.9	26.4	23.5	24.1	24.0	24.6	25.1
	8H	25.2	25.7	25.7	26.2	26.7	23.9	24.4	24.4	24.9	25.4
	12H	25.5	26.0	26.0	26.5	27.1	24.3	24.7	24.8	25.2	25.8

12H	4H	24.1	24.8	24.6	25.3	25.7	22.6	23.3	23.1	23.7	24.2
	6H	24.9	25.4	25.4	25.9	26.4	23.5	24.1	24.1	24.6	25.1
	8H	25.3	25.8	25.8	26.2	26.8	24.0	24.5	24.5	25.0	25.6

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 2219.14 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.)