



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L80-835-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] 4-AUG-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-L80-835-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	9298
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	66.9
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	62213	48103	38483
55	49813	33712	28177
65	35218	22536	23511
75	26762	17204	21983
85	27437	20341	23180

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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	4479.560	4479.560	4479.560	4479.560	4479.560
5	4555.361	4474.670	4450.218	4433.102	4420.876
10	4496.677	4425.767	4408.650	4389.089	4367.082
15	4408.650	4330.405	4293.727	4315.734	4281.501
20	4266.830	4191.030	4159.243	4171.468	4159.243
25	4061.436	4002.751	3958.738	3909.835	3902.499
30	3836.479	3760.679	3626.194	3518.607	3442.806
35	3543.058	3433.026	3200.734	2924.429	2697.028
40	3110.263	3007.565	2606.556	2181.096	2024.605
45	2609.002	2545.427	2017.269	1682.280	1613.815
50	2132.193	2024.605	1535.570	1315.504	1254.375
55	1694.506	1471.995	1146.787	1007.412	958.509
60	1251.930	1007.412	846.031	750.669	748.224
65	882.708	701.765	564.835	567.281	589.287
70	606.403	474.364	379.002	442.577	452.357
75	410.789	325.208	264.079	322.763	337.434
80	288.531	232.292	205.395	224.956	232.292
85	141.820	132.039	105.143	119.814	119.814
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1643.47	N.A.	17.70
0-30	3459.68	N.A.	37.20
0-40	5422.94	N.A.	58.30
0-60	8164.18	N.A.	87.80
0-80	9168.74	N.A.	98.60
0-90	9297.97	N.A.	100.00
10-90	8873.58	N.A.	95.40
20-40	3779.46	N.A.	40.60
20-50	5399.93	N.A.	58.10
40-70	3394.7	N.A.	36.50
60-80	1004.56	N.A.	10.80
70-80	351.10	N.A.	3.80
80-90	129.23	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	9297.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	424.39
10-20	1219.08
20-30	1816.21
30-40	1963.26
40-50	1620.47
50-60	1120.77
60-70	653.46
70-80	351.10
80-90	129.23
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	112	112	112	112	110	110	110	110	105	105	105	100	100	100	96	96	96	94
1	104	100	97	93	101	98	95	92	94	91	89	90	88	86	87	85	84	82
2	96	89	84	79	93	87	82	78	84	80	76	81	78	74	78	75	73	71
3	88	80	73	68	86	78	72	67	76	70	66	73	69	65	71	67	64	62
4	82	72	64	59	80	71	64	58	68	62	58	66	61	57	64	60	56	54
5	76	65	57	52	74	64	57	51	62	56	51	60	55	50	59	54	50	48
6	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	49	45	43
7	66	54	47	41	64	53	46	41	52	46	41	51	45	41	49	44	40	39
8	62	50	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35
9	58	46	39	34	56	45	39	34	44	38	34	43	38	34	43	37	33	32
10	54	43	36	31	53	42	35	31	41	35	31	40	35	31	40	34	31	29

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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	24.8	26.3	25.2	26.6	26.9	22.2	23.6	22.5	23.9	24.3
	3H	26.0	27.3	26.3	27.6	28.0	23.7	25.0	24.1	25.3	25.7
	4H	26.4	27.6	26.8	28.0	28.4	24.3	25.5	24.7	25.9	26.3
	6H	26.9	28.0	27.3	28.4	28.7	24.9	26.0	25.3	26.4	26.8
	8H	27.0	28.1	27.5	28.5	28.9	25.1	26.2	25.6	26.6	27.0
	12H	27.2	28.2	27.6	28.6	29.0	25.3	26.4	25.8	26.7	27.2

UGR Viewed Endwise

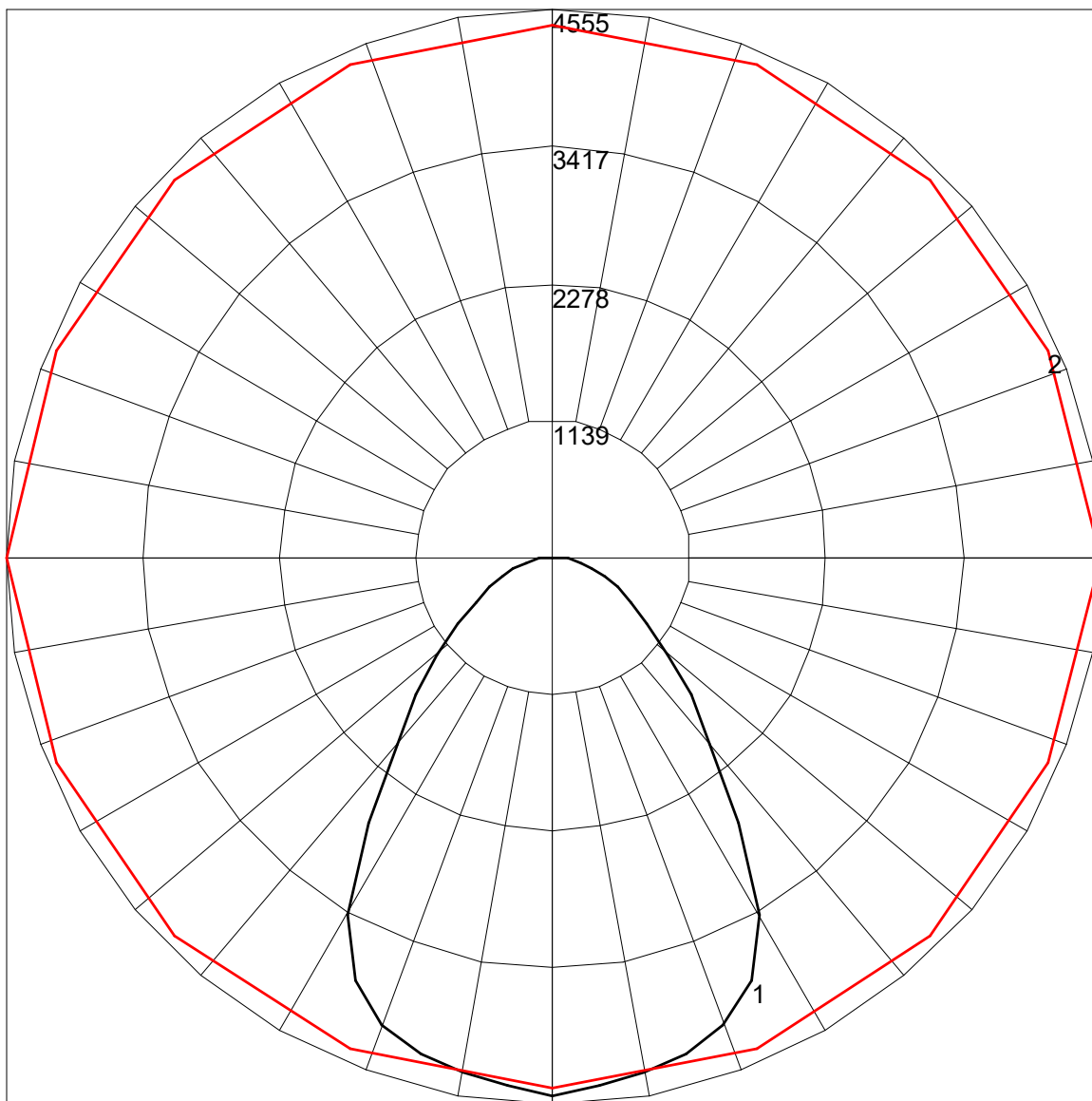
4H	2H	24.9	26.2	25.3	26.5	26.9	22.6	23.9	23.0	24.2	24.6
	3H	26.3	27.3	26.7	27.7	28.1	24.3	25.3	24.7	25.7	26.1
	4H	26.8	27.7	27.2	28.1	28.6	25.1	26.0	25.6	26.5	26.9
	6H	27.4	28.2	27.9	28.7	29.1	25.9	26.7	26.4	27.1	27.6
	8H	27.7	28.4	28.1	28.9	29.3	26.2	26.9	26.6	27.4	27.8
	12H	27.9	28.6	28.4	29.0	29.5	26.4	27.1	26.9	27.6	28.1

8H	4H	26.9	27.6	27.4	28.1	28.6	25.3	26.1	25.8	26.5	27.0
	6H	27.6	28.2	28.1	28.7	29.2	26.3	26.9	26.8	27.4	27.9
	8H	28.0	28.5	28.5	29.0	29.5	26.7	27.2	27.2	27.7	28.2
	12H	28.3	28.8	28.8	29.3	29.9	27.1	27.5	27.6	28.0	28.6

12H	4H	26.9	27.6	27.4	28.1	28.5	25.4	26.1	25.9	26.5	27.0
	6H	27.7	28.2	28.2	28.7	29.2	26.3	26.9	26.9	27.4	27.9
	8H	28.1	28.6	28.6	29.0	29.6	26.8	27.3	27.3	27.8	28.4

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 4555.361 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.)