



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L20-835-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-L20-835-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	2354
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	16.2
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	15749	12177	9742
55	12610	8534	7133
65	8915	5705	5952
75	6775	4355	5565
85	6946	5149	5868

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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	1133.981	1133.981	1133.981	1133.981	1133.981
5	1153.169	1132.743	1126.553	1122.220	1119.125
10	1138.313	1120.363	1116.030	1111.078	1105.507
15	1116.030	1096.222	1086.938	1092.509	1083.843
20	1080.129	1060.940	1052.893	1055.988	1052.893
25	1028.134	1013.278	1002.137	989.757	987.900
30	971.187	951.999	917.955	890.719	871.531
35	896.909	869.055	810.251	740.306	682.740
40	787.349	761.352	659.838	552.135	512.520
45	660.457	644.363	510.663	425.862	408.530
50	539.755	512.520	388.723	333.014	317.539
55	428.957	372.629	290.304	255.022	242.642
60	316.920	255.022	214.169	190.028	189.409
65	223.454	177.649	142.986	143.605	149.175
70	153.508	120.083	95.943	112.036	114.512
75	103.989	82.325	66.850	81.706	85.420
80	73.040	58.804	51.995	56.947	58.804
85	35.901	33.425	26.616	30.330	30.330
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	416.04	N.A.	17.70
0-30	875.80	N.A.	37.20
0-40	1372.79	N.A.	58.30
0-60	2066.72	N.A.	87.80
0-80	2321.02	N.A.	98.60
0-90	2353.74	N.A.	100.00
10-90	2246.31	N.A.	95.40
20-40	956.75	N.A.	40.60
20-50	1366.97	N.A.	58.10
40-70	859.35	N.A.	36.50
60-80	254.30	N.A.	10.80
70-80	88.88	N.A.	3.80
80-90	32.71	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	2353.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.43
10-20	308.61
20-30	459.76
30-40	496.99
40-50	410.21
50-60	283.72
60-70	165.42
70-80	88.88
80-90	32.71
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	62	62	62	62	60	60	60	60	58	58	58	55	55	55	53	53	53	52
1	57	55	53	52	56	54	52	51	52	50	49	50	49	48	48	47	46	45
2	53	49	46	43	52	48	45	43	46	44	42	45	43	41	43	42	40	39
3	49	44	40	37	48	43	40	37	42	39	36	40	38	36	39	37	35	34
4	45	40	36	32	44	39	35	32	38	34	32	37	34	31	35	33	31	30
5	42	36	32	29	41	35	31	28	34	31	28	33	30	28	32	30	28	27
6	39	33	28	25	38	32	28	25	31	28	25	30	27	25	30	27	25	24
7	36	30	26	23	35	29	26	23	29	25	23	28	25	22	27	24	22	21
8	34	27	23	21	33	27	23	21	26	23	20	26	23	20	25	22	20	19
9	32	25	21	19	31	25	21	19	25	21	19	24	21	18	23	21	18	18
10	30	24	20	17	29	23	20	17	23	19	17	22	19	17	22	19	17	16

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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

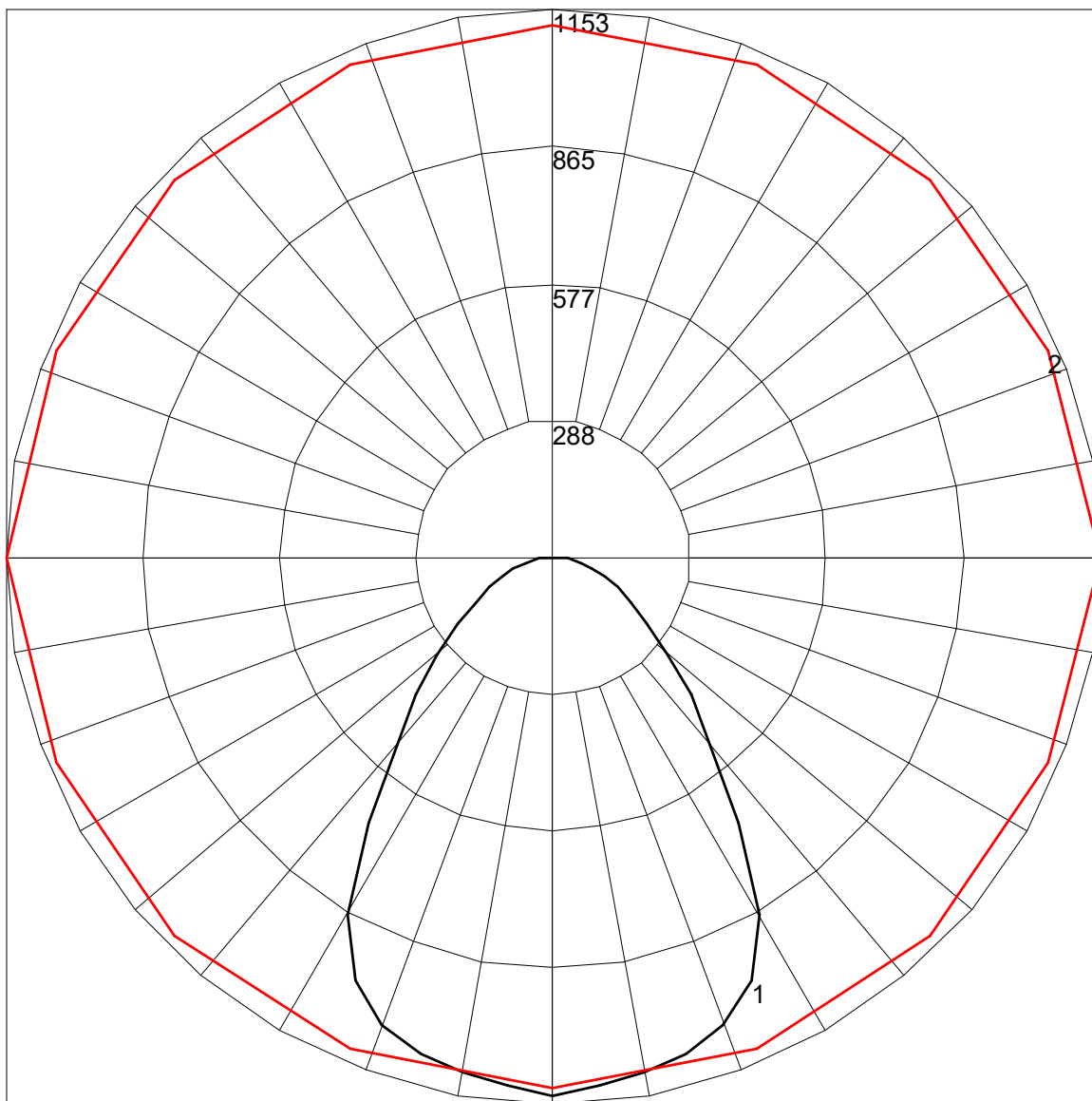
4H	2H	22.1	23.4	22.5	23.7	24.1	19.8	21.1	20.2	21.4	21.8
	3H	23.5	24.5	23.9	24.9	25.3	21.5	22.5	21.9	22.9	23.3
	4H	24.0	24.9	24.4	25.3	25.8	22.3	23.2	22.8	23.7	24.1
	6H	24.6	25.4	25.1	25.9	26.3	23.1	23.9	23.6	24.3	24.8
	8H	24.9	25.6	25.3	26.1	26.5	23.4	24.1	23.8	24.6	25.0
	12H	25.1	25.8	25.6	26.2	26.7	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 = 1153.169 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.)