



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L15-835-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] 22" LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-2-L15-835-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	1743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	12.5
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)	1.71 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	25316	19574	15659
55	20270	13718	11466
65	14331	9170	9567
75	10890	7001	8945
85	11165	8277	9432

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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	839.646	839.646	839.646	839.646	839.646
5	853.854	838.730	834.147	830.938	828.647
10	842.855	829.563	826.355	822.689	818.564
15	826.355	811.689	804.814	808.939	802.522
20	799.772	785.564	779.606	781.898	779.606
25	761.273	750.274	742.024	732.857	731.482
30	719.108	704.900	679.692	659.526	645.318
35	664.109	643.484	599.944	548.153	505.529
40	582.986	563.736	488.572	408.823	379.491
45	489.030	477.114	378.116	315.326	302.493
50	399.657	379.491	287.826	246.577	235.119
55	317.617	275.910	214.953	188.829	179.662
60	234.661	188.829	158.580	140.705	140.247
65	165.454	131.538	105.872	106.331	110.456
70	113.664	88.915	71.040	82.956	84.790
75	76.998	60.957	49.499	60.499	63.248
80	54.082	43.541	38.499	42.166	43.541
85	26.583	24.749	19.708	22.458	22.458
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	308.05	N.A.	17.70
0-30	648.48	N.A.	37.20
0-40	1016.47	N.A.	58.30
0-60	1530.29	N.A.	87.80
0-80	1718.58	N.A.	98.60
0-90	1742.81	N.A.	100.00
10-90	1663.26	N.A.	95.40
20-40	708.42	N.A.	40.60
20-50	1012.16	N.A.	58.10
40-70	636.30	N.A.	36.50
60-80	188.29	N.A.	10.80
70-80	65.81	N.A.	3.80
80-90	24.22	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	1742.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.55
10-20	228.50
20-30	340.43
30-40	367.99
40-50	303.74
50-60	210.08
60-70	122.48
70-80	65.81
80-90	24.22
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	176	176	176	176	172	172	172	172	165	165	165	158	158	158	151	151	151	148
1	163	157	152	147	159	154	149	144	148	144	140	142	139	136	137	134	132	129
2	151	140	131	124	147	137	129	122	132	125	120	128	122	117	123	119	114	111
3	139	125	115	106	136	123	113	105	119	110	103	115	108	102	111	105	100	97
4	129	113	101	92	125	111	100	92	107	98	91	104	96	89	101	94	88	85
5	119	102	90	81	116	101	89	81	98	88	80	95	86	79	92	85	78	76
6	111	93	81	72	108	92	80	72	89	79	71	87	78	71	84	76	70	67
7	103	85	73	65	101	84	73	65	82	72	64	80	71	64	78	70	63	61
8	97	78	67	59	95	77	66	58	75	65	58	74	64	58	72	64	57	55
9	91	72	61	53	89	71	61	53	70	60	53	68	59	53	67	59	52	50
10	85	67	56	49	84	66	56	49	65	55	49	64	55	48	62	54	48	46

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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	20.1	21.6	20.5	21.9	22.2	17.5	18.9	17.8	19.2	19.6
	3H	21.3	22.6	21.6	22.9	23.3	19.0	20.3	19.3	20.6	21.0
	4H	21.7	22.9	22.1	23.3	23.7	19.6	20.8	20.0	21.2	21.6
	6H	22.2	23.3	22.6	23.6	24.0	20.2	21.3	20.6	21.7	22.1
	8H	22.3	23.4	22.8	23.8	24.2	20.4	21.5	20.9	21.9	22.3
	12H	22.5	23.5	22.9	23.9	24.3	20.6	21.6	21.0	22.0	22.5

UGR Viewed Endwise

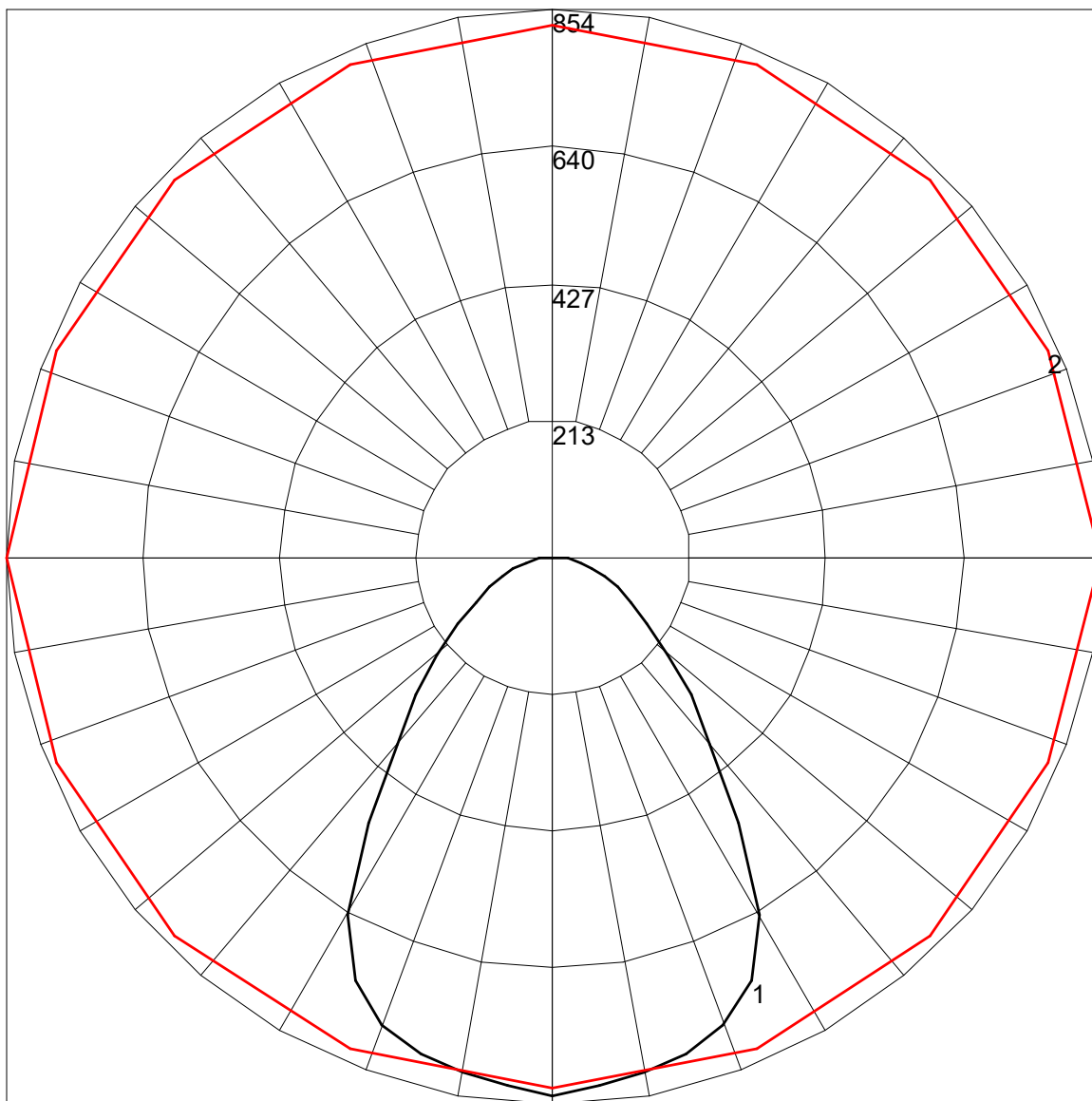
4H	2H	20.2	21.4	20.6	21.8	22.2	17.9	19.1	18.3	19.5	19.9
	3H	21.5	22.6	22.0	23.0	23.4	19.6	20.6	20.0	21.0	21.4
	4H	22.1	23.0	22.5	23.4	23.9	20.4	21.3	20.9	21.7	22.2
	6H	22.7	23.5	23.2	23.9	24.4	21.2	22.0	21.6	22.4	22.9
	8H	23.0	23.7	23.4	24.2	24.6	21.5	22.2	21.9	22.7	23.1
	12H	23.2	23.9	23.7	24.3	24.8	21.7	22.4	22.2	22.9	23.4

8H	4H	22.2	22.9	22.7	23.4	23.8	20.6	21.4	21.1	21.8	22.3
	6H	22.9	23.5	23.4	24.0	24.5	21.6	22.2	22.1	22.7	23.1
	8H	23.3	23.8	23.8	24.3	24.8	22.0	22.5	22.5	23.0	23.5
	12H	23.6	24.1	24.1	24.6	25.2	22.3	22.8	22.9	23.3	23.9

12H	4H	22.2	22.9	22.7	23.3	23.8	20.7	21.3	21.2	21.8	22.3
	6H	23.0	23.5	23.5	24.0	24.5	21.6	22.2	22.2	22.7	23.2
	8H	23.4	23.8	23.9	24.3	24.9	22.1	22.6	22.6	23.1	23.7

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 853.854 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.)