



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L85-835-(L70)-EM10WLP-DIM-UNV_EMER MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 06-25-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L85-835-(L70)-EM10WLP-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5510	4446	4204
55	4671	3727	3767
65	3668	3185	3422
75	2526	2603	3036
85	1129	2208	2661

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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	516.232	516.232	516.232	516.232	516.232
5	520.672	514.129	513.895	512.726	506.650
10	511.792	505.949	506.417	505.014	499.406
15	497.536	491.928	493.330	491.928	487.254
20	473.699	469.493	473.699	471.596	466.689
25	444.254	442.618	446.357	446.123	438.879
30	411.770	412.471	416.678	416.678	407.797
35	372.042	377.651	379.754	380.455	371.341
40	328.809	337.222	335.352	339.091	334.417
45	286.510	293.988	293.521	300.298	299.129
50	243.276	250.053	255.428	266.879	269.216
55	198.874	207.287	219.206	236.265	243.977
60	157.043	167.325	187.657	208.689	218.738
65	116.847	133.206	158.679	182.749	193.032
70	80.157	101.657	129.000	155.173	167.325
75	50.945	71.511	102.358	128.532	140.684
80	27.810	47.674	80.391	104.228	115.445
85	8.880	29.212	60.994	82.261	92.777
90	0.000	18.929	46.505	66.369	73.614
95	0.000	17.293	43.467	60.761	64.967
100	0.000	16.359	40.429	55.386	59.125
105	0.000	14.956	37.859	51.179	54.918
110	0.000	14.022	35.288	47.907	51.647
115	0.000	12.853	32.250	44.869	48.375
120	0.000	10.984	28.978	40.663	44.869
125	0.000	9.114	26.174	37.157	40.897
130	0.000	7.478	22.668	33.185	35.755
135	0.000	6.777	18.228	28.744	31.315
140	0.000	5.609	14.255	24.071	26.641
145	0.000	4.440	10.984	18.696	21.266
150	0.000	3.272	8.413	14.255	16.359
155	0.000	2.571	6.777	10.283	11.918
160	0.000	0.000	4.908	7.478	8.413
165	0.000	0.000	3.272	5.375	5.842
170	0.000	0.000	0.000	3.272	3.505
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75S-4-L85-835-(L70)-EM10WLP-DIM-UNV_EMER MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	187.40	N.A.	12.20
0-30	392.00	N.A.	25.60
0-40	627.52	N.A.	41.00
0-60	1054.45	N.A.	68.90
0-80	1316.79	N.A.	86.10
0-90	1379.43	N.A.	90.20
10-90	1330.65	N.A.	87.00
20-40	440.12	N.A.	28.80
20-50	668.55	N.A.	43.70
40-70	582.98	N.A.	38.10
60-80	262.34	N.A.	17.10
70-80	106.29	N.A.	6.90
80-90	62.64	N.A.	4.10
90-110	77.08	N.A.	5.00
90-120	105.29	N.A.	6.90
90-130	126.08	N.A.	8.20
90-150	146.71	N.A.	9.60
90-180	150.58	N.A.	9.80
110-180	73.50	N.A.	4.80
0-180	1530.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.78
10-20	138.63
20-30	204.60
30-40	235.52
40-50	228.43
50-60	198.50
60-70	156.05
70-80	106.29
80-90	62.64
90-100	42.17
100-110	34.90
110-120	28.22
120-130	20.79
130-140	13.47
140-150	7.16
150-160	3.00
160-170	0.83
170-180	0.04

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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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	14.6	16.0	15.1	16.5	17.1	16.8	18.3	17.4	18.8	19.3
	3H	15.8	17.0	16.3	17.6	18.1	19.2	20.5	19.8	21.0	21.6
	4H	16.1	17.3	16.6	17.8	18.4	20.4	21.6	20.9	22.1	22.7
	6H	16.2	17.4	16.8	17.9	18.5	21.5	22.6	22.1	23.2	23.8
	8H	16.2	17.3	16.8	17.9	18.5	22.1	23.2	22.7	23.7	24.4
	12H	16.2	17.3	16.8	17.8	18.5	22.7	23.7	23.3	24.3	25.0

UGR Viewed Endwise

4H	2H	15.4	16.6	15.9	17.2	17.8	17.2	18.4	17.7	18.9	19.6
	3H	16.8	17.8	17.4	18.4	19.1	19.8	20.8	20.4	21.4	22.0
	4H	17.3	18.2	17.8	18.8	19.4	21.1	22.0	21.7	22.6	23.3
	6H	17.5	18.3	18.1	19.0	19.6	22.4	23.2	23.0	23.8	24.5
	8H	17.6	18.4	18.2	19.0	19.6	23.1	23.9	23.7	24.5	25.2
	12H	17.6	18.3	18.2	18.9	19.6	23.8	24.5	24.5	25.2	25.9

8H	4H	17.9	18.7	18.5	19.3	20.0	21.2	22.0	21.8	22.6	23.3
	6H	18.3	19.0	19.0	19.6	20.3	22.7	23.4	23.4	24.0	24.7
	8H	18.5	19.0	19.1	19.7	20.4	23.5	24.1	24.2	24.8	25.5
	12H	18.5	19.0	19.2	19.7	20.5	24.4	24.9	25.1	25.6	26.4

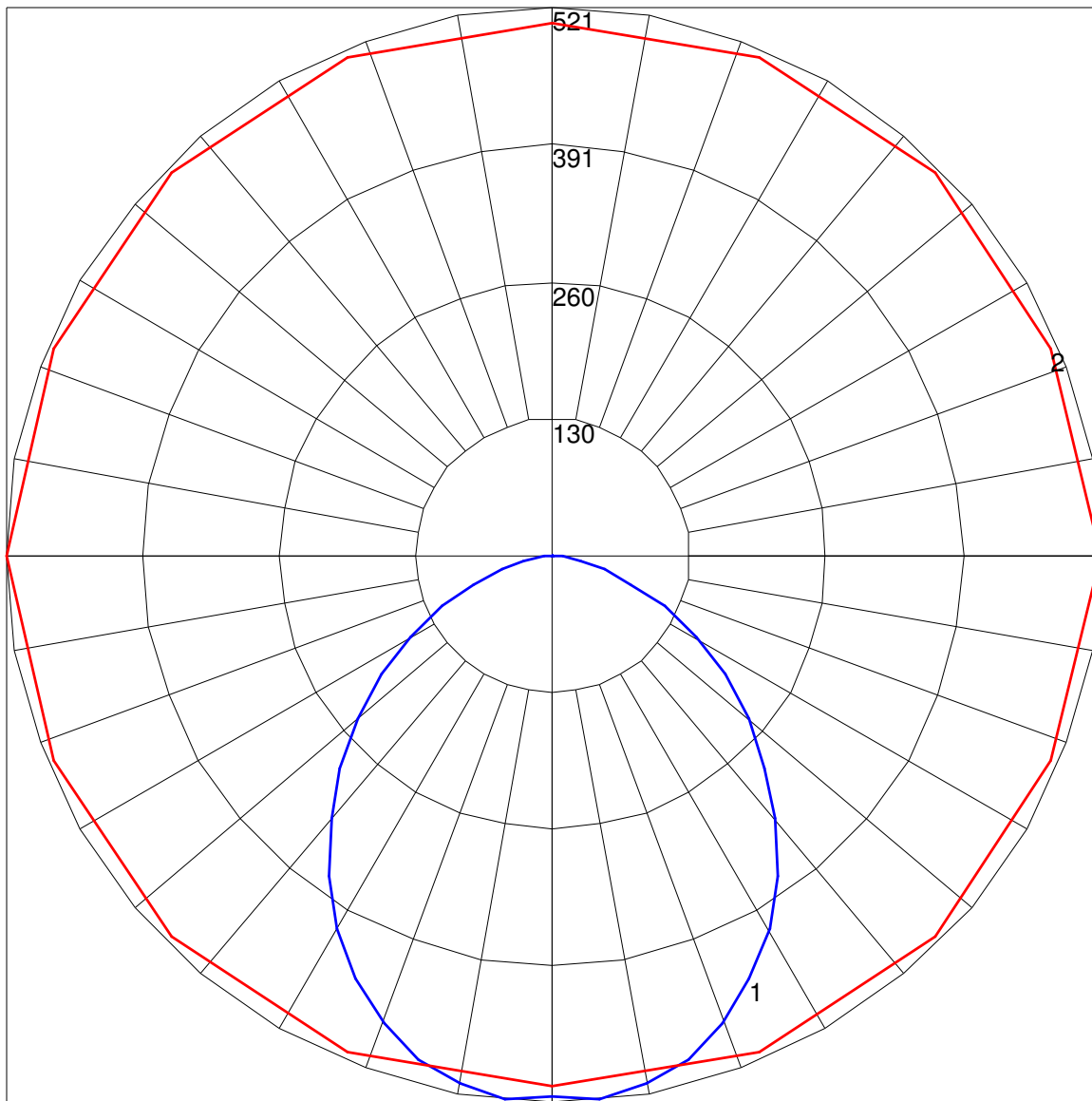
12H	4H	18.1	18.8	18.7	19.4	20.1	21.2	21.9	21.8	22.6	23.3
	6H	18.6	19.2	19.3	19.8	20.6	22.7	23.3	23.4	23.9	24.7
	8H	18.8	19.3	19.5	20.0	20.8	23.6	24.1	24.2	24.8	25.5

Maximum UGR = 26.4

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POLAR GRAPH



Maximum Candela = 520.672 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)