



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-835-EM10WLP-DIM-UNV(EM MODE)_.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] 02-13-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WITH /FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L30-835-EM10WLP-DIM-UNV(EM MODE)

[_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	1479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	5326	4298	4063
55	4516	3603	3641
65	3546	3079	3308
75	2442	2516	2935
85	1091	2135	2572

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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	499.024	499.024	499.024	499.024	499.024
5	503.316	496.991	496.765	495.636	489.762
10	494.732	489.084	489.536	488.181	482.759
15	480.952	475.530	476.885	475.530	471.012
20	457.909	453.843	457.909	455.876	451.132
25	429.445	427.864	431.479	431.253	424.250
30	398.045	398.722	402.789	402.789	394.204
35	359.641	365.062	367.096	367.773	358.963
40	317.848	325.981	324.174	327.788	323.270
45	276.960	284.188	283.737	290.288	289.158
50	235.167	241.718	246.914	257.984	260.243
55	192.245	200.378	211.899	228.390	235.845
60	151.808	161.748	181.402	201.733	211.447
65	112.953	128.766	153.389	176.658	186.598
70	77.485	98.269	124.700	150.001	161.748
75	49.247	69.127	98.946	124.248	135.995
80	26.883	46.085	77.711	100.754	111.597
85	8.584	28.238	58.961	79.519	89.684
90	0.000	18.298	44.955	64.157	71.160
95	0.000	16.717	42.018	58.735	62.802
100	0.000	15.813	39.082	53.539	57.154
105	0.000	14.458	36.597	49.473	53.088
110	0.000	13.554	34.112	46.311	49.925
115	0.000	12.425	31.175	43.374	46.762
120	0.000	10.618	28.012	39.307	43.374
125	0.000	8.810	25.301	35.919	39.533
130	0.000	7.229	21.913	32.079	34.563
135	0.000	6.551	17.621	27.786	30.271
140	0.000	5.422	13.780	23.268	25.753
145	0.000	4.292	10.618	18.072	20.557
150	0.000	3.163	8.133	13.780	15.813
155	0.000	2.485	6.551	9.940	11.521
160	0.000	0.000	4.744	7.229	8.133
165	0.000	0.000	3.163	5.196	5.648
170	0.000	0.000	0.000	3.163	3.389
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-L30-835-EM10WLP-DIM-UNV(EM MODE)_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	181.16	N.A.	12.20
0-30	378.94	N.A.	25.60
0-40	606.60	N.A.	41.00
0-60	1019.3	N.A.	68.90
0-80	1272.9	N.A.	86.10
0-90	1333.45	N.A.	90.20
10-90	1286.3	N.A.	87.00
20-40	425.45	N.A.	28.80
20-50	646.26	N.A.	43.70
40-70	563.55	N.A.	38.10
60-80	253.59	N.A.	17.10
70-80	102.75	N.A.	6.90
80-90	60.55	N.A.	4.10
90-110	74.51	N.A.	5.00
90-120	101.79	N.A.	6.90
90-130	121.88	N.A.	8.20
90-150	141.82	N.A.	9.60
90-180	145.56	N.A.	9.80
110-180	71.05	N.A.	4.80
0-180	1479.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.15
10-20	134.01
20-30	197.78
30-40	227.67
40-50	220.82
50-60	191.88
60-70	150.85
70-80	102.75
80-90	60.55
90-100	40.77
100-110	33.74
110-120	27.28
120-130	20.09
130-140	13.02
140-150	6.92
150-160	2.90
160-170	0.80
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	14.5	15.9	15.0	16.4	17.0	16.7	18.2	17.3	18.7	19.2
	3H	15.7	16.9	16.2	17.5	18.0	19.1	20.4	19.7	20.9	21.5
	4H	16.0	17.2	16.5	17.7	18.3	20.3	21.5	20.8	22.0	22.6
	6H	16.1	17.3	16.7	17.8	18.4	21.4	22.5	22.0	23.1	23.7
	8H	16.1	17.2	16.7	17.8	18.4	22.0	23.1	22.6	23.6	24.3
	12H	16.1	17.2	16.7	17.7	18.4	22.6	23.6	23.2	24.2	24.9

UGR Viewed Endwise

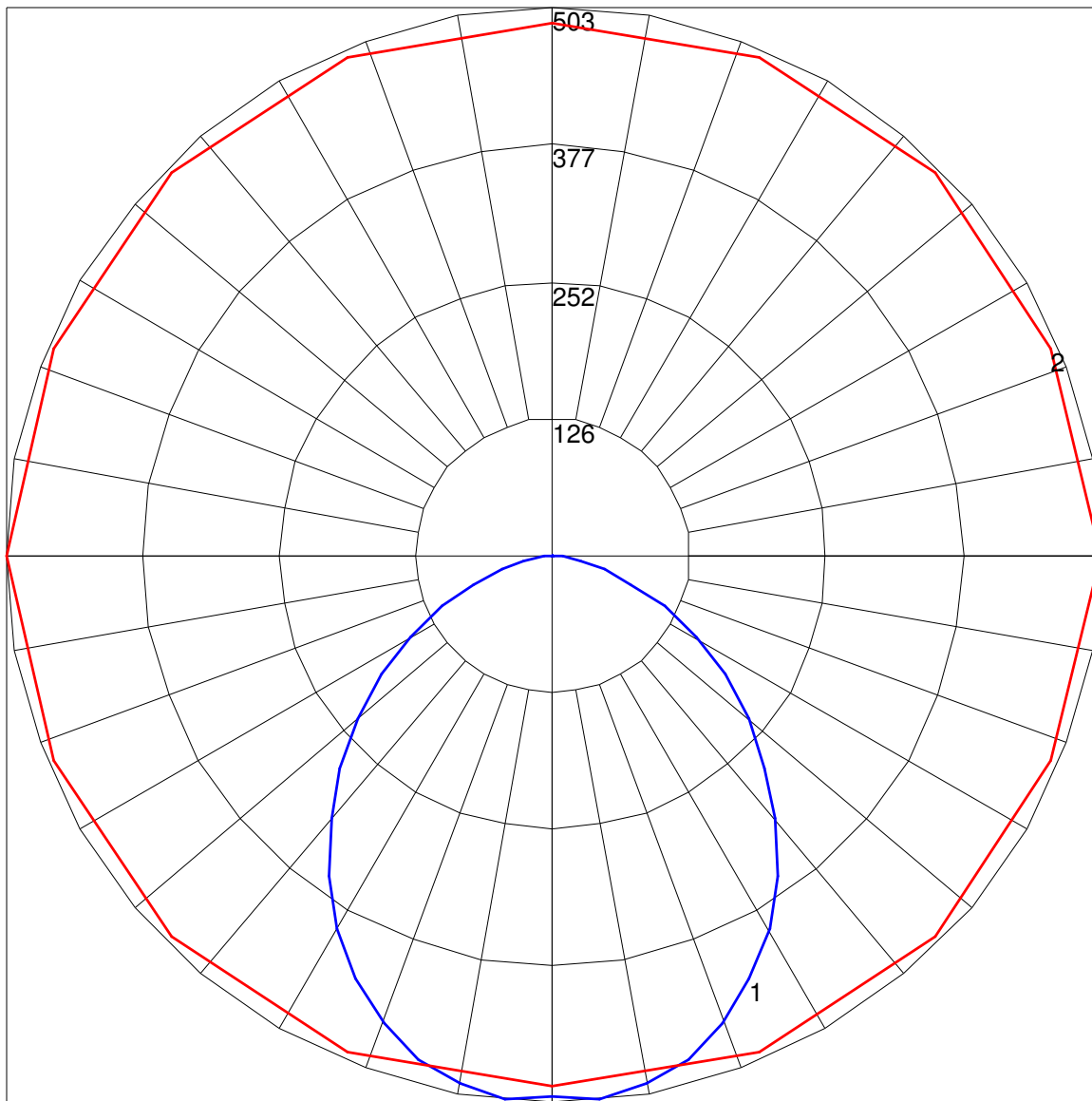
4H	2H	15.3	16.5	15.8	17.1	17.7	17.1	18.3	17.6	18.9	19.5
	3H	16.7	17.7	17.3	18.3	19.0	19.7	20.7	20.3	21.3	21.9
	4H	17.2	18.1	17.7	18.7	19.3	21.0	21.9	21.6	22.5	23.2
	6H	17.4	18.2	18.0	18.9	19.5	22.3	23.1	22.9	23.7	24.4
	8H	17.5	18.3	18.1	18.9	19.5	23.0	23.8	23.6	24.4	25.1
	12H	17.5	18.2	18.1	18.8	19.5	23.7	24.4	24.4	25.1	25.8

8H	4H	17.8	18.6	18.4	19.2	19.9	21.1	21.9	21.7	22.5	23.2
	6H	18.2	18.9	18.9	19.5	20.2	22.6	23.3	23.3	23.9	24.6
	8H	18.4	18.9	19.0	19.6	20.3	23.4	24.0	24.1	24.7	25.4
	12H	18.4	18.9	19.1	19.6	20.4	24.3	24.8	25.0	25.5	26.3

12H	4H	18.0	18.7	18.6	19.3	20.0	21.1	21.8	21.7	22.5	23.2
	6H	18.5	19.1	19.2	19.7	20.5	22.6	23.2	23.3	23.8	24.6
	8H	18.7	19.2	19.4	19.9	20.7	23.5	24.0	24.1	24.7	25.4

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 503.316 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.)