



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-EM10WLP-DIM-UNV(EMER 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] 04-11-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-835-EM10WLP-DIM-UNV(EMER 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	1480
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	5330	4301	4066
55	4519	3605	3644
65	3548	3081	3310
75	2443	2518	2936
85	1092	2136	2574

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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	499.361	499.361	499.361	499.361	499.361
5	503.657	497.327	497.101	495.971	490.093
10	495.066	489.415	489.867	488.511	483.085
15	481.277	475.851	477.208	475.851	471.330
20	458.219	454.150	458.219	456.184	451.437
25	429.736	428.153	431.770	431.544	424.536
30	398.314	398.992	403.061	403.061	394.471
35	359.884	365.309	367.344	368.022	359.206
40	318.063	326.201	324.393	328.010	323.489
45	277.147	284.381	283.928	290.484	289.354
50	235.326	241.882	247.081	258.158	260.418
55	192.375	200.513	212.042	228.544	236.004
60	151.911	161.857	181.524	201.870	211.590
65	113.029	128.853	153.493	176.777	186.724
70	77.538	98.335	124.784	150.102	161.857
75	49.281	69.174	99.013	124.332	136.087
80	26.901	46.116	77.764	100.822	111.673
85	8.590	28.257	59.001	79.572	89.745
90	0.000	18.311	44.985	64.200	71.208
95	0.000	16.728	42.047	58.775	62.844
100	0.000	15.824	39.108	53.576	57.193
105	0.000	14.468	36.621	49.507	53.124
110	0.000	13.563	34.135	46.342	49.959
115	0.000	12.433	31.196	43.403	46.794
120	0.000	10.625	28.031	39.334	43.403
125	0.000	8.816	25.318	35.943	39.560
130	0.000	7.234	21.928	32.100	34.587
135	0.000	6.556	17.633	27.805	30.292
140	0.000	5.425	13.790	23.284	25.771
145	0.000	4.295	10.625	18.085	20.571
150	0.000	3.165	8.138	13.790	15.824
155	0.000	2.487	6.556	9.947	11.529
160	0.000	0.000	4.747	7.234	8.138
165	0.000	0.000	3.165	5.199	5.651
170	0.000	0.000	0.000	3.165	3.391
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-L50-835-EM10WLP-DIM-UNV(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	181.28	N.A.	12.20
0-30	379.19	N.A.	25.60
0-40	607.01	N.A.	41.00
0-60	1019.99	N.A.	68.90
0-80	1273.76	N.A.	86.10
0-90	1334.35	N.A.	90.20
10-90	1287.17	N.A.	87.00
20-40	425.73	N.A.	28.80
20-50	646.70	N.A.	43.70
40-70	563.93	N.A.	38.10
60-80	253.76	N.A.	17.10
70-80	102.81	N.A.	6.90
80-90	60.59	N.A.	4.10
90-110	74.56	N.A.	5.00
90-120	101.85	N.A.	6.90
90-130	121.96	N.A.	8.20
90-150	141.92	N.A.	9.60
90-180	145.66	N.A.	9.80
110-180	71.10	N.A.	4.80
0-180	1480.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.18
10-20	134.10
20-30	197.91
30-40	227.82
40-50	220.97
50-60	192.01
60-70	150.95
70-80	102.81
80-90	60.59
90-100	40.80
100-110	33.76
110-120	27.29
120-130	20.11
130-140	13.03
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

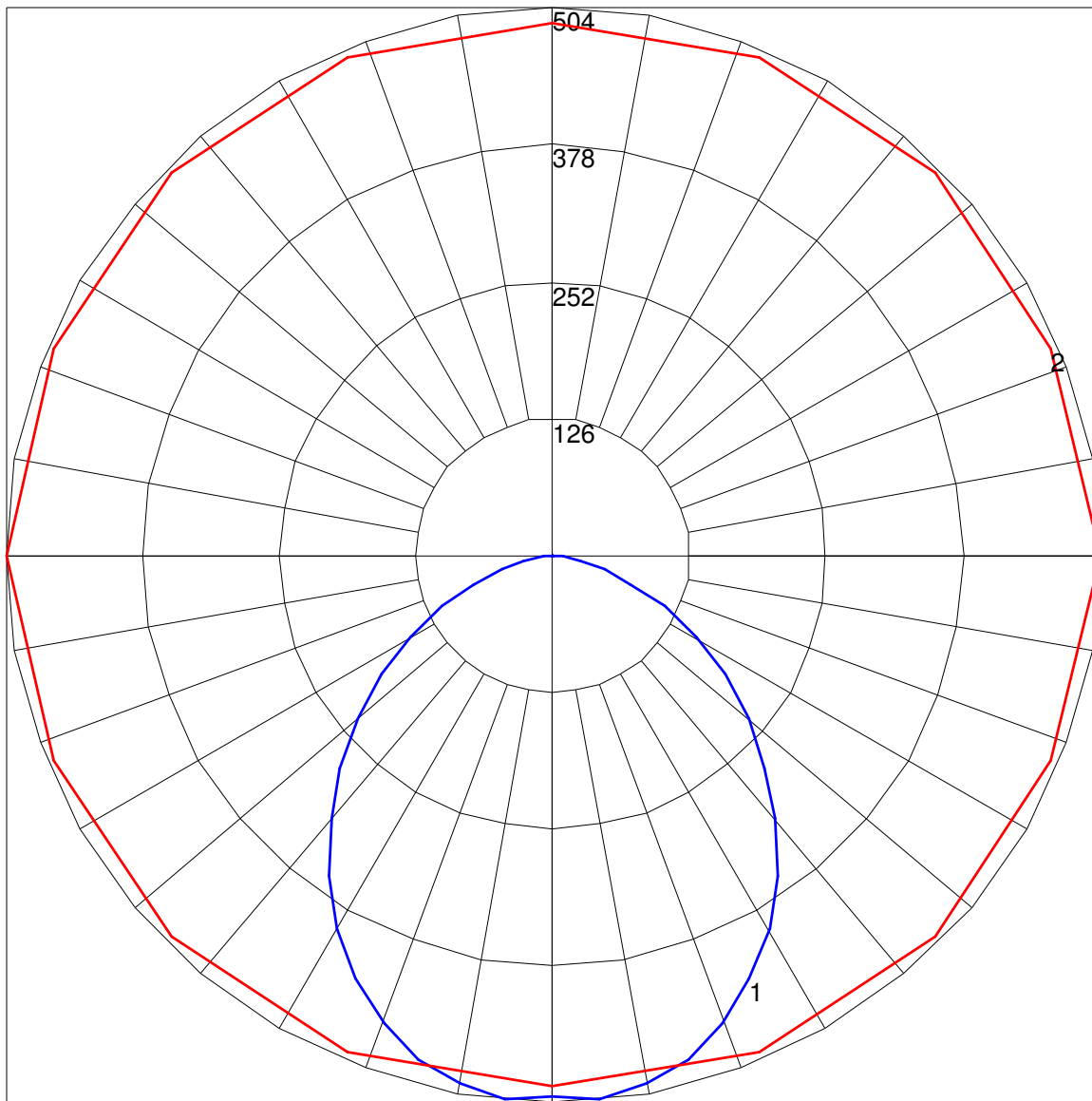
4H	2H	15.3	16.5	15.8	17.1	17.7	17.1	18.3	17.6	18.9	19.5
	3H	16.7	17.7	17.3	18.3	19.0	19.7	20.7	20.3	21.3	21.9
	4H	17.2	18.1	17.7	18.7	19.3	21.0	21.9	21.6	22.5	23.2
	6H	17.4	18.2	18.0	18.9	19.5	22.3	23.1	22.9	23.7	24.4
	8H	17.5	18.3	18.1	18.9	19.5	23.0	23.8	23.6	24.4	25.1
	12H	17.5	18.2	18.1	18.8	19.5	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 = 503.657 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.)