

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-840-(L38)-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] 06-27-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44.625 INCH SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-840-(L38)-EM10WLP-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K 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	1500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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	5402	4359	4121
55	4580	3654	3693
65	3596	3122	3355
75	2477	2552	2976
85	1106	2165	2609

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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	506.110	506.110	506.110	506.110	506.110
5	510.463	504.048	503.819	502.673	496.716
10	501.757	496.029	496.487	495.112	489.614
15	487.781	482.282	483.657	482.282	477.700
20	464.411	460.287	464.411	462.349	457.538
25	435.543	433.939	437.605	437.376	430.273
30	403.696	404.384	408.508	408.508	399.801
35	364.747	370.246	372.308	372.995	364.060
40	322.361	330.609	328.777	332.442	327.860
45	280.892	288.224	287.765	294.410	293.264
50	238.506	245.150	250.420	261.647	263.938
55	194.975	203.223	214.908	231.633	239.194
60	153.964	164.045	183.977	204.598	214.449
65	114.556	130.594	155.567	179.166	189.247
70	78.586	99.664	126.470	152.131	164.045
75	49.947	70.108	100.351	126.012	137.926
80	27.264	46.739	78.815	102.184	113.182
85	8.706	28.639	59.798	80.648	90.958
90	0.000	18.558	45.593	65.068	72.170
95	0.000	16.954	42.615	59.569	63.693
100	0.000	16.038	39.636	54.300	57.965
105	0.000	14.663	37.116	50.176	53.841
110	0.000	13.747	34.596	46.968	50.634
115	0.000	12.601	31.618	43.990	47.426
120	0.000	10.768	28.410	39.866	43.990
125	0.000	8.935	25.661	36.429	40.095
130	0.000	7.332	22.224	32.534	35.054
135	0.000	6.644	17.871	28.181	30.701
140	0.000	5.499	13.976	23.599	26.119
145	0.000	4.353	10.768	18.329	20.849
150	0.000	3.208	8.248	13.976	16.038
155	0.000	2.520	6.644	10.081	11.685
160	0.000	0.000	4.811	7.332	8.248
165	0.000	0.000	3.208	5.270	5.728
170	0.000	0.000	0.000	3.208	3.437
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-L50-840-(L38)-EM10WLP-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	183.73	N.A.	12.20
0-30	384.32	N.A.	25.60
0-40	615.21	N.A.	41.00
0-60	1033.78	N.A.	68.90
0-80	1290.97	N.A.	86.10
0-90	1352.38	N.A.	90.20
10-90	1304.56	N.A.	87.00
20-40	431.49	N.A.	28.80
20-50	655.44	N.A.	43.70
40-70	571.55	N.A.	38.10
60-80	257.19	N.A.	17.10
70-80	104.20	N.A.	6.90
80-90	61.41	N.A.	4.10
90-110	75.57	N.A.	5.00
90-120	103.23	N.A.	6.90
90-130	123.61	N.A.	8.20
90-150	143.84	N.A.	9.60
90-180	147.63	N.A.	9.80
110-180	72.06	N.A.	4.80
0-180	1500.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.82
10-20	135.91
20-30	200.59
30-40	230.90
40-50	223.95
50-60	194.61
60-70	152.99
70-80	104.20
80-90	61.41
90-100	41.35
100-110	34.22
110-120	27.66
120-130	20.38
130-140	13.21
140-150	7.02
150-160	2.94
160-170	0.81
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

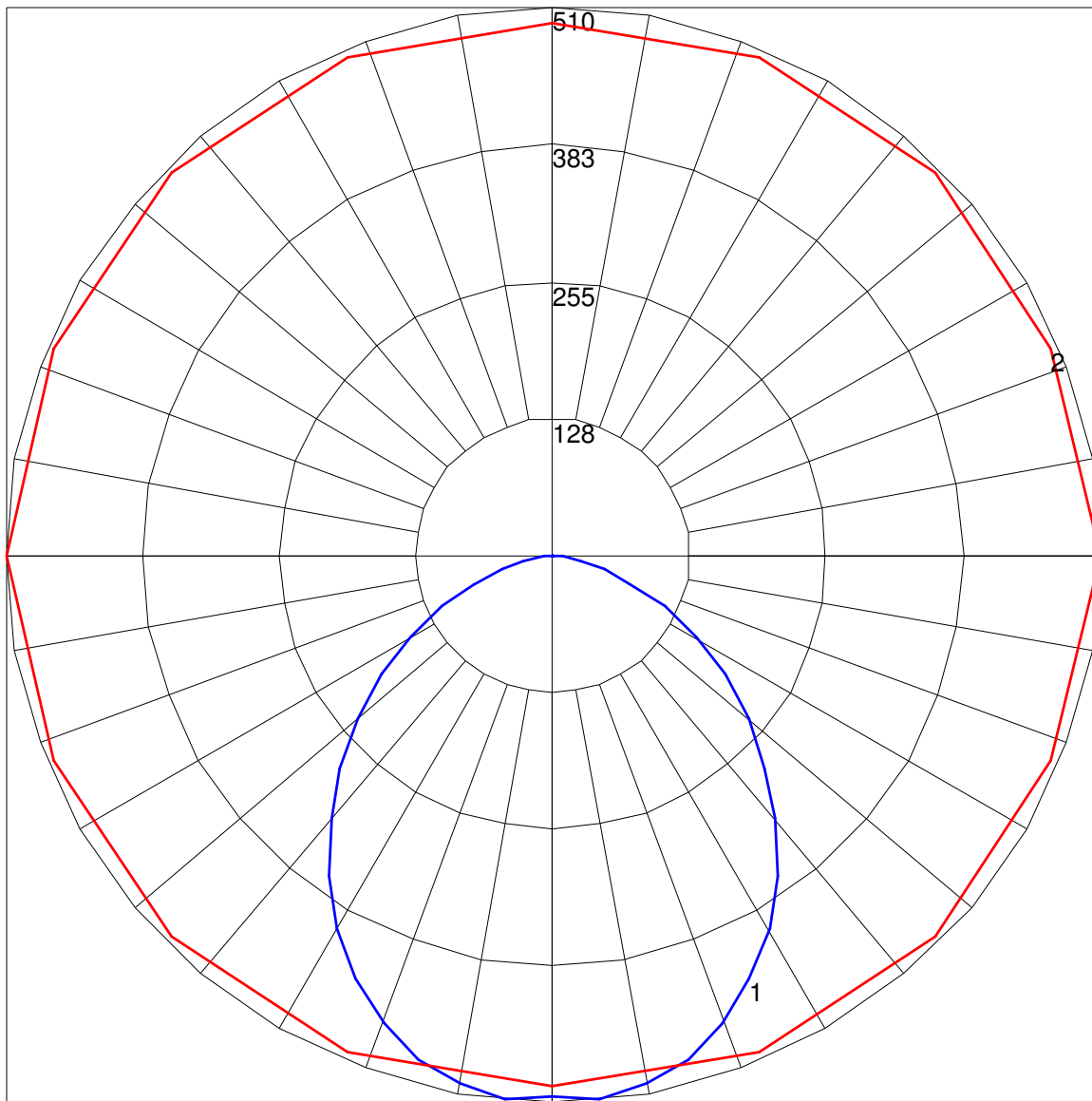
12H	4H	18.0	18.7	18.6	19.3	20.0	21.1	21.8	21.7	22.5	23.2
	6H	18.5	19.1	19.2	19.7	20.5	22.6	23.2	23.3	23.8	24.6
	8H	18.7	19.2	19.4	19.9	20.7	23.5	24.0	24.1	24.7	25.4

Maximum UGR = 26.3

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## POLAR GRAPH



Maximum Candela = 510.463 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.)