



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-(L32)-EM10WLP-WG-75-DIM-UNV\_EM 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] 11-29-2023

[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-L50-835-(L32)-EM10WLP-WG-75-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	1340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	4826	3894	3682
55	4091	3264	3299
65	3213	2789	2997
75	2212	2280	2659
85	988	1934	2331

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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	452.125	452.125	452.125	452.125	452.125
5	456.013	450.283	450.078	449.055	443.733
10	448.236	443.119	443.528	442.300	437.388
15	435.751	430.839	432.067	430.839	426.745
20	414.874	411.190	414.874	413.032	408.734
25	389.085	387.652	390.927	390.722	384.378
30	360.635	361.249	364.934	364.934	357.156
35	325.841	330.753	332.595	333.209	325.227
40	287.976	295.344	293.707	296.982	292.888
45	250.930	257.480	257.070	263.006	261.983
50	213.066	219.001	223.709	233.738	235.784
55	174.177	181.546	191.984	206.925	213.680
60	137.541	146.547	164.353	182.774	191.575
65	102.337	116.664	138.974	160.055	169.061
70	70.203	89.033	112.980	135.903	146.547
75	44.619	62.630	89.647	112.571	123.214
80	24.356	41.753	70.408	91.285	101.109
85	7.778	25.584	53.420	72.045	81.256
90	0.000	16.579	40.730	58.127	64.472
95	0.000	15.146	38.069	53.215	56.899
100	0.000	14.327	35.409	48.508	51.782
105	0.000	13.099	33.157	44.824	48.098
110	0.000	12.280	30.906	41.958	45.233
115	0.000	11.257	28.245	39.297	42.367
120	0.000	9.620	25.380	35.613	39.297
125	0.000	7.982	22.923	32.543	35.818
130	0.000	6.550	19.853	29.064	31.315
135	0.000	5.936	15.965	25.175	27.426
140	0.000	4.912	12.485	21.081	23.333
145	0.000	3.889	9.620	16.374	18.625
150	0.000	2.865	7.368	12.485	14.327
155	0.000	2.251	5.936	9.006	10.438
160	0.000	0.000	4.298	6.550	7.368
165	0.000	0.000	2.865	4.707	5.117
170	0.000	0.000	0.000	2.865	3.070
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	164.13	N.A.	12.20
0-30	343.32	N.A.	25.60
0-40	549.59	N.A.	41.00
0-60	923.51	N.A.	68.90
0-80	1153.27	N.A.	86.10
0-90	1208.13	N.A.	90.20
10-90	1165.41	N.A.	87.00
20-40	385.46	N.A.	28.80
20-50	585.53	N.A.	43.70
40-70	510.59	N.A.	38.10
60-80	229.76	N.A.	17.10
70-80	93.09	N.A.	6.90
80-90	54.86	N.A.	4.10
90-110	67.51	N.A.	5.00
90-120	92.22	N.A.	6.90
90-130	110.42	N.A.	8.20
90-150	128.49	N.A.	9.60
90-180	131.88	N.A.	9.80
110-180	64.37	N.A.	4.80
0-180	1340.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	42.72
10-20	121.41
20-30	179.19
30-40	206.27
40-50	200.06
50-60	173.85
60-70	136.67
70-80	93.09
80-90	54.86
90-100	36.94
100-110	30.57
110-120	24.71
120-130	18.21
130-140	11.80
140-150	6.27
150-160	2.62
160-170	0.72
170-180	0.04

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Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	14.1	15.5	14.6	16.0	16.6	16.3	17.8	16.9	18.3	18.8
	3H	15.3	16.5	15.8	17.1	17.6	18.7	20.0	19.3	20.5	21.1
	4H	15.6	16.8	16.1	17.3	17.9	19.9	21.1	20.4	21.6	22.2
	6H	15.7	16.9	16.3	17.4	18.0	21.0	22.1	21.6	22.7	23.3
	8H	15.7	16.8	16.3	17.4	18.0	21.6	22.7	22.2	23.2	23.9
	12H	15.7	16.8	16.3	17.3	18.0	22.2	23.2	22.8	23.8	24.5

### UGR Viewed Endwise

4H	2H	14.9	16.1	15.4	16.7	17.3	16.7	17.9	17.2	18.5	19.1
	3H	16.3	17.3	16.9	17.9	18.6	19.3	20.3	19.9	20.9	21.5
	4H	16.8	17.7	17.3	18.3	18.9	20.6	21.5	21.2	22.1	22.8
	6H	17.0	17.8	17.6	18.5	19.1	21.9	22.7	22.5	23.3	24.0
	8H	17.1	17.9	17.7	18.5	19.1	22.6	23.4	23.2	24.0	24.7
	12H	17.1	17.8	17.7	18.4	19.1	23.3	24.0	24.0	24.7	25.4

8H	4H	17.4	18.2	18.0	18.8	19.5	20.7	21.5	21.3	22.1	22.8
	6H	17.8	18.5	18.5	19.1	19.8	22.2	22.9	22.9	23.5	24.2
	8H	18.0	18.5	18.6	19.2	19.9	23.0	23.6	23.7	24.3	25.0
	12H	18.0	18.5	18.7	19.2	20.0	23.9	24.4	24.6	25.1	25.9

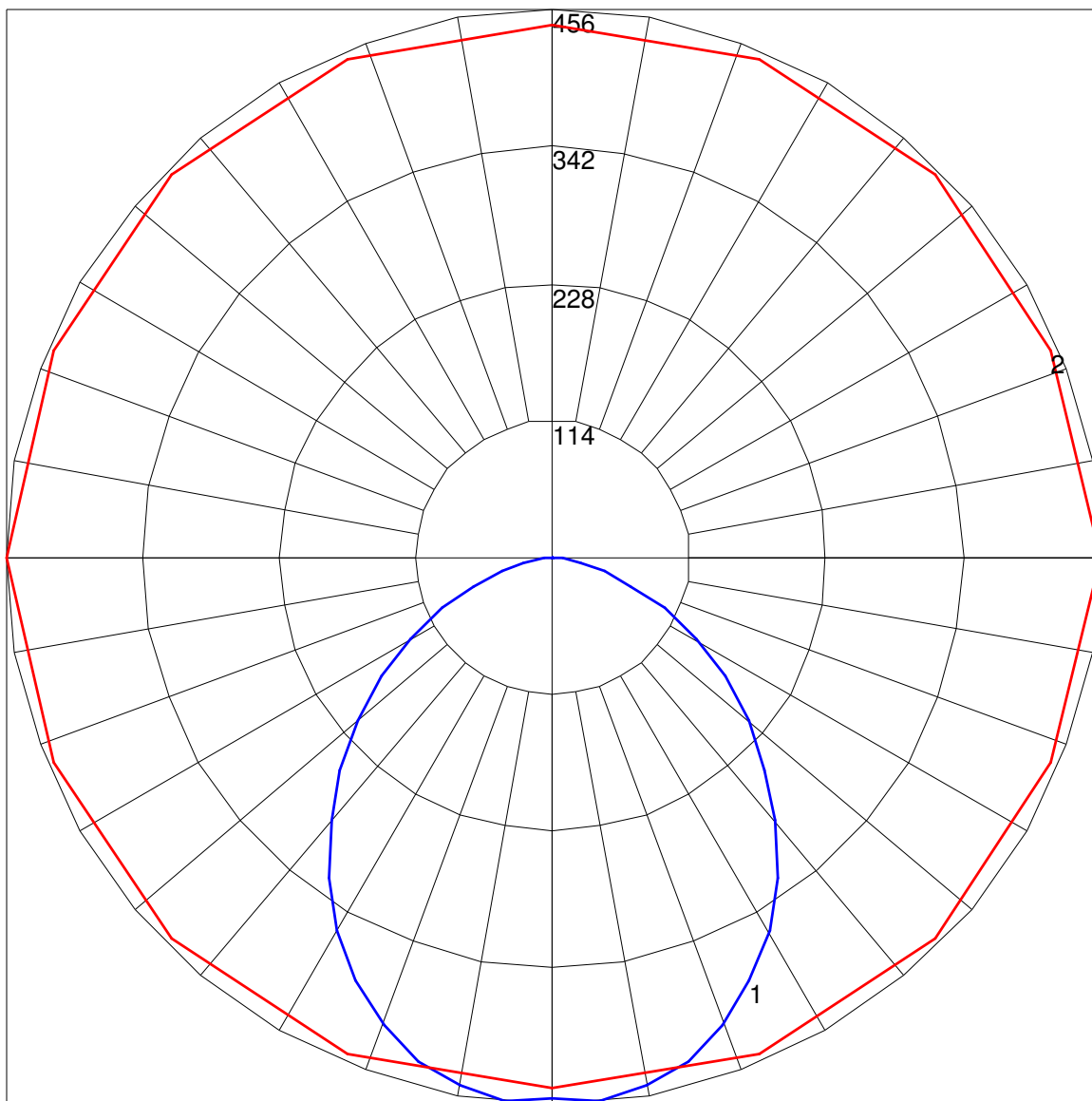
12H	4H	17.6	18.3	18.2	18.9	19.6	20.7	21.4	21.4	22.1	22.8
	6H	18.1	18.7	18.8	19.3	20.1	22.2	22.8	22.9	23.4	24.2
	8H	18.3	18.8	19.0	19.5	20.3	23.1	23.6	23.7	24.3	25.0

Maximum UGR = 25.9

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## POLAR GRAPH



Maximum Candela = 456.013 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.)