



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-930-(L40)-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] 09-23-2022

[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-L50-930-(L40)-EM10WLP-DIM-UNV

[LAMPCAT] HLM 90 CRI 3000K 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	1260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	4538	3661	3462
55	3847	3069	3102
65	3021	2623	2818
75	2080	2144	2500
85	929	1819	2191

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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	425.132	425.132	425.132	425.132	425.132
5	428.789	423.400	423.208	422.245	417.242
10	421.476	416.664	417.049	415.894	411.275
15	409.736	405.117	406.272	405.117	401.268
20	390.105	386.641	390.105	388.373	384.332
25	365.856	364.509	367.588	367.396	361.430
30	339.105	339.682	343.147	343.147	335.833
35	306.388	311.007	312.739	313.316	305.810
40	270.784	277.712	276.172	279.252	275.403
45	235.949	242.108	241.723	247.304	246.342
50	200.345	205.926	210.353	219.783	221.708
55	163.779	170.707	180.522	194.572	200.923
60	129.329	137.797	154.541	171.862	180.138
65	96.227	109.699	130.677	150.500	158.968
70	66.012	83.718	106.235	127.790	137.797
75	41.955	58.891	84.295	105.850	115.858
80	22.902	39.261	66.204	85.835	95.073
85	7.313	24.057	50.231	67.744	76.404
90	0.000	15.589	38.298	54.657	60.623
95	0.000	14.242	35.797	50.038	53.502
100	0.000	13.472	33.295	45.612	48.691
105	0.000	12.317	31.178	42.148	45.227
110	0.000	11.547	29.061	39.453	42.532
115	0.000	10.585	26.559	36.951	39.838
120	0.000	9.045	23.864	33.487	36.951
125	0.000	7.506	21.555	30.600	33.680
130	0.000	6.159	18.668	27.329	29.446
135	0.000	5.581	15.011	23.672	25.789
140	0.000	4.619	11.740	19.823	21.940
145	0.000	3.657	9.045	15.396	17.513
150	0.000	2.694	6.928	11.740	13.472
155	0.000	2.117	5.581	8.468	9.815
160	0.000	0.000	4.042	6.159	6.928
165	0.000	0.000	2.694	4.426	4.811
170	0.000	0.000	0.000	2.694	2.887
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-L50-930-(L40)-EM10WLP-DIM-UNV\_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	154.33	N.A.	12.20
0-30	322.83	N.A.	25.60
0-40	516.78	N.A.	41.00
0-60	868.37	N.A.	68.90
0-80	1084.41	N.A.	86.10
0-90	1136.00	N.A.	90.20
10-90	1095.83	N.A.	87.00
20-40	362.45	N.A.	28.80
20-50	550.57	N.A.	43.70
40-70	480.10	N.A.	38.10
60-80	216.04	N.A.	17.10
70-80	87.53	N.A.	6.90
80-90	51.59	N.A.	4.10
90-110	63.48	N.A.	5.00
90-120	86.71	N.A.	6.90
90-130	103.83	N.A.	8.20
90-150	120.82	N.A.	9.60
90-180	124.01	N.A.	9.80
110-180	60.53	N.A.	4.80
0-180	1260.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.17
10-20	114.16
20-30	168.49
30-40	193.95
40-50	188.12
50-60	163.47
60-70	128.51
70-80	87.53
80-90	51.59
90-100	34.73
100-110	28.75
110-120	23.24
120-130	17.12
130-140	11.09
140-150	5.90
150-160	2.47
160-170	0.68
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	13.9	15.3	14.4	15.8	16.4	16.1	17.6	16.7	18.1	18.6
	3H	15.1	16.3	15.6	16.9	17.5	18.5	19.8	19.1	20.3	20.9
	4H	15.4	16.6	15.9	17.1	17.7	19.7	20.9	20.2	21.4	22.0
	6H	15.5	16.7	16.1	17.2	17.8	20.8	21.9	21.4	22.5	23.1
	8H	15.5	16.6	16.1	17.2	17.8	21.4	22.5	22.0	23.0	23.7
	12H	15.5	16.6	16.1	17.1	17.8	22.0	23.0	22.6	23.6	24.3

### UGR Viewed Endwise

4H	2H	14.7	15.9	15.2	16.5	17.1	16.5	17.7	17.0	18.3	18.9
	3H	16.1	17.1	16.7	17.7	18.4	19.1	20.1	19.7	20.7	21.3
	4H	16.6	17.5	17.1	18.1	18.7	20.4	21.3	21.0	21.9	22.6
	6H	16.8	17.6	17.4	18.3	18.9	21.7	22.5	22.3	23.1	23.8
	8H	16.9	17.7	17.5	18.3	18.9	22.4	23.2	23.0	23.8	24.5
	12H	16.9	17.6	17.5	18.2	18.9	23.1	23.8	23.8	24.5	25.2

8H	4H	17.2	18.0	17.8	18.6	19.3	20.5	21.3	21.1	21.9	22.6
	6H	17.6	18.3	18.3	18.9	19.6	22.0	22.7	22.7	23.3	24.0
	8H	17.8	18.3	18.4	19.0	19.7	22.8	23.4	23.5	24.1	24.8
	12H	17.8	18.3	18.5	19.0	19.8	23.7	24.2	24.4	24.9	25.7

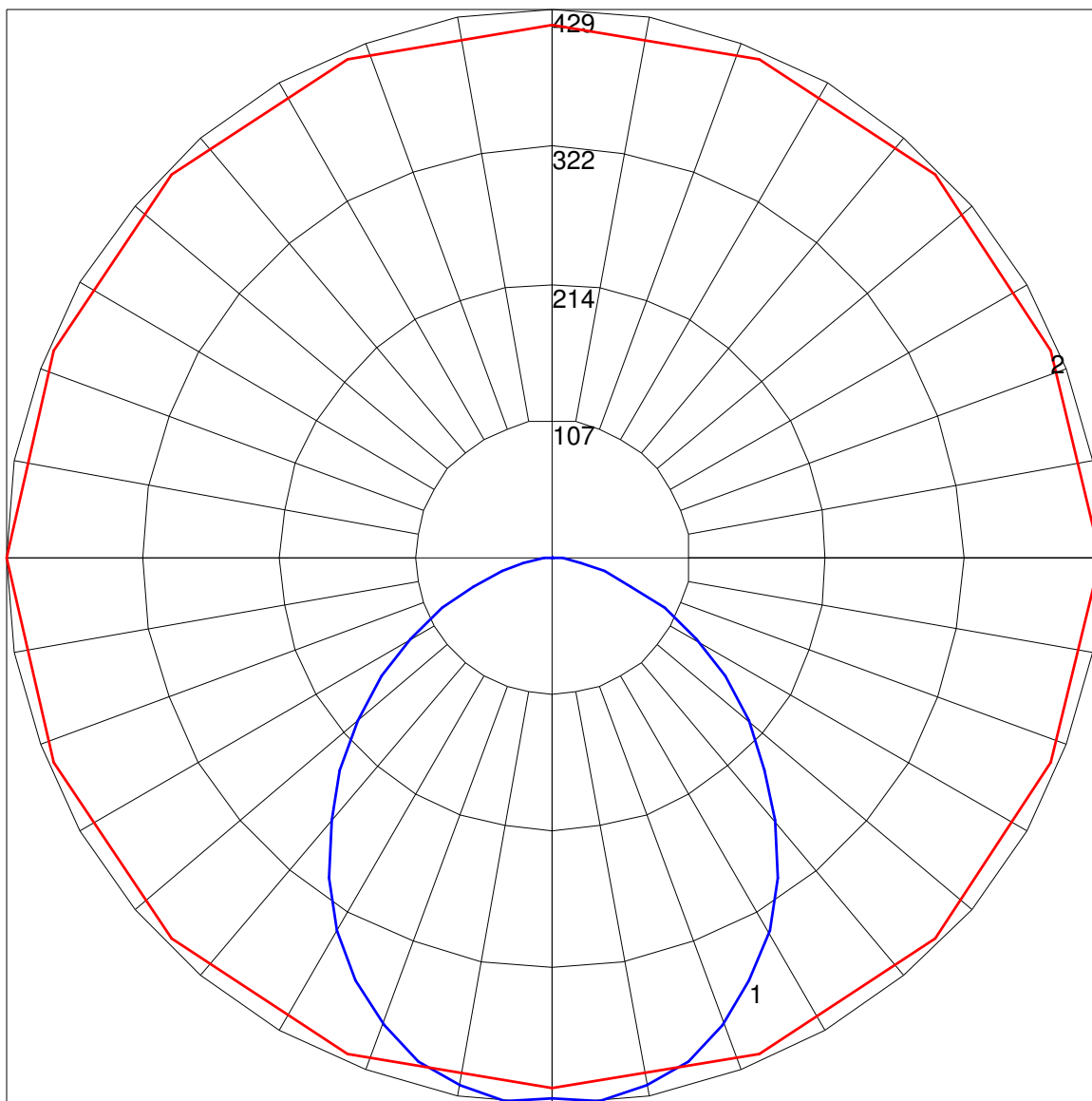
12H	4H	17.4	18.1	18.0	18.7	19.4	20.5	21.2	21.2	21.9	22.6
	6H	17.9	18.5	18.6	19.1	19.9	22.0	22.6	22.7	23.2	24.0
	8H	18.1	18.6	18.8	19.3	20.1	22.9	23.4	23.5	24.1	24.8

Maximum UGR = 25.7

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## POLAR GRAPH



Maximum Candela = 428.789 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.)