



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-835-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] 04-11-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4'LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 75S-4-L65-835-EM10WLP-DIM-UNV(EMER MODE)

[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	1420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
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	5114	4126	3901
55	4335	3459	3496
65	3404	2956	3176
75	2344	2416	2817
85	1047	2050	2470

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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	479.117	479.117	479.117	479.117	479.117
5	483.238	477.165	476.948	475.864	470.224
10	474.996	469.574	470.008	468.706	463.501
15	461.766	456.560	457.862	456.560	452.222
20	439.643	435.738	439.643	437.690	433.136
25	412.314	410.796	414.266	414.049	407.325
30	382.166	382.816	386.721	386.721	378.479
35	345.294	350.499	352.451	353.102	344.643
40	305.169	312.977	311.242	314.712	310.374
45	265.911	272.852	272.418	278.708	277.623
50	225.786	232.076	237.064	247.692	249.861
55	184.576	192.384	203.446	219.279	226.436
60	145.752	155.296	174.165	193.686	203.012
65	108.447	123.629	147.270	169.610	179.154
70	74.394	94.349	119.725	144.017	155.296
75	47.283	66.369	94.999	119.291	130.570
80	25.810	44.246	74.611	96.734	107.145
85	8.242	27.112	56.609	76.346	86.107
90	0.000	17.568	43.162	61.598	68.321
95	0.000	16.050	40.342	56.392	60.296
100	0.000	15.183	37.523	51.404	54.874
105	0.000	13.881	35.137	47.500	50.970
110	0.000	13.014	32.751	44.463	47.933
115	0.000	11.929	29.931	41.643	44.897
120	0.000	10.194	26.895	37.739	41.643
125	0.000	8.459	24.292	34.486	37.956
130	0.000	6.941	21.039	30.799	33.185
135	0.000	6.290	16.918	26.678	29.064
140	0.000	5.205	13.230	22.340	24.726
145	0.000	4.121	10.194	17.351	19.737
150	0.000	3.037	7.808	13.230	15.183
155	0.000	2.386	6.290	9.543	11.062
160	0.000	0.000	4.555	6.941	7.808
165	0.000	0.000	3.037	4.989	5.422
170	0.000	0.000	0.000	3.037	3.253
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-L65-835-EM10WLP-DIM-UNV(EM MODE)\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	173.93	N.A.	12.20
0-30	363.82	N.A.	25.60
0-40	582.40	N.A.	41.00
0-60	978.64	N.A.	68.90
0-80	1222.12	N.A.	86.10
0-90	1280.25	N.A.	90.20
10-90	1234.99	N.A.	87.00
20-40	408.47	N.A.	28.80
20-50	620.48	N.A.	43.70
40-70	541.07	N.A.	38.10
60-80	243.48	N.A.	17.10
70-80	98.65	N.A.	6.90
80-90	58.14	N.A.	4.10
90-110	71.54	N.A.	5.00
90-120	97.72	N.A.	6.90
90-130	117.02	N.A.	8.20
90-150	136.16	N.A.	9.60
90-180	139.75	N.A.	9.80
110-180	68.22	N.A.	4.80
0-180	1420.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.27
10-20	128.66
20-30	189.89
30-40	218.58
40-50	212.01
50-60	184.23
60-70	144.83
70-80	98.65
80-90	58.14
90-100	39.14
100-110	32.40
110-120	26.19
120-130	19.29
130-140	12.50
140-150	6.64
150-160	2.78
160-170	0.77
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	14.3	15.7	14.8	16.2	16.8	16.5	18.0	17.1	18.5	19.0
	3H	15.5	16.7	16.0	17.3	17.8	18.9	20.2	19.5	20.7	21.3
	4H	15.8	17.0	16.3	17.5	18.1	20.1	21.3	20.6	21.8	22.4
	6H	15.9	17.1	16.5	17.6	18.2	21.2	22.3	21.8	22.9	23.5
	8H	15.9	17.0	16.5	17.6	18.2	21.8	22.9	22.4	23.4	24.1
	12H	15.9	17.0	16.5	17.5	18.2	22.4	23.4	23.0	24.0	24.7

### UGR Viewed Endwise

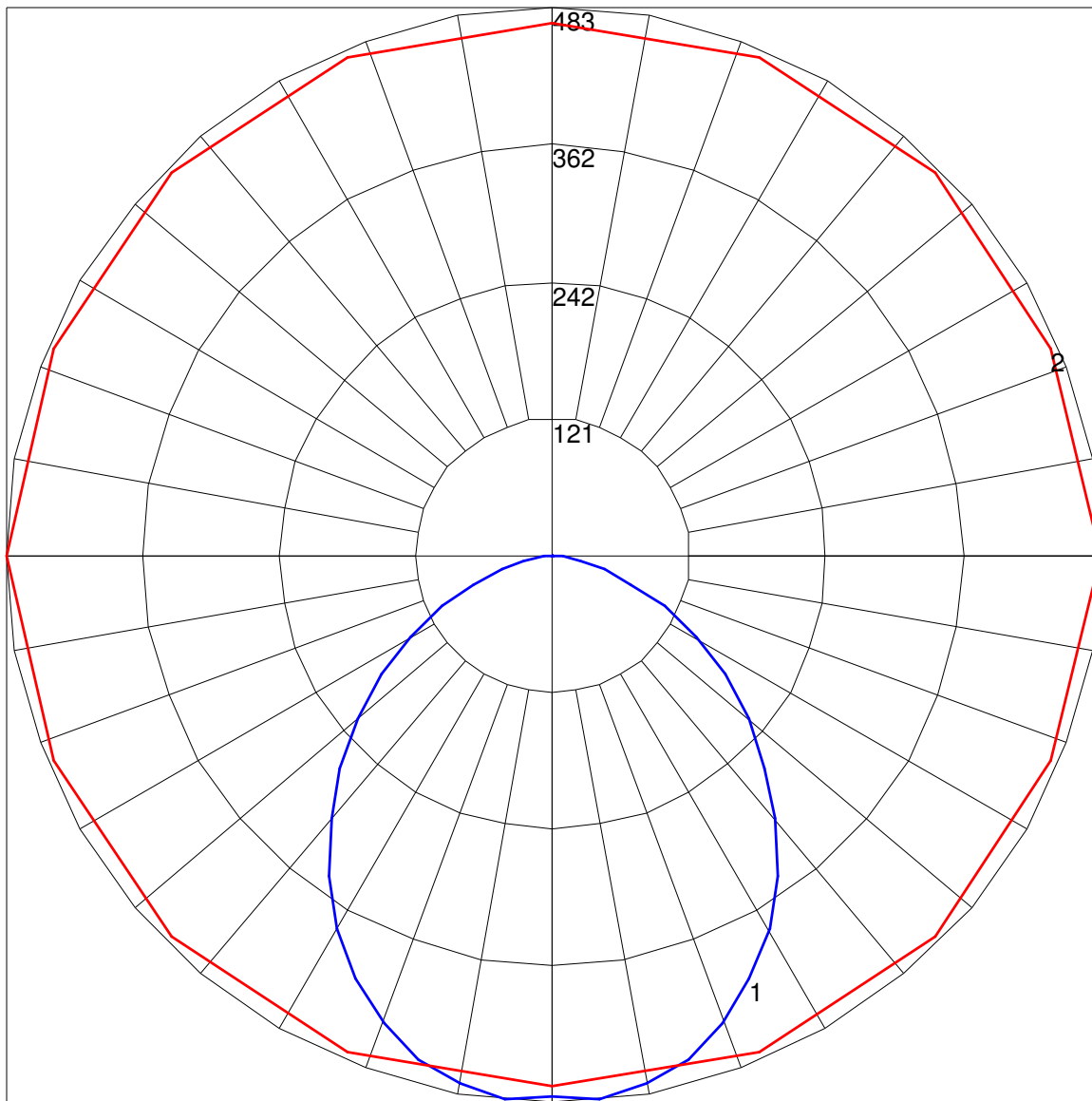
4H	2H	15.1	16.3	15.6	16.9	17.5	16.9	18.1	17.4	18.7	19.3
	3H	16.5	17.5	17.1	18.1	18.8	19.5	20.5	20.1	21.1	21.7
	4H	17.0	17.9	17.5	18.5	19.1	20.8	21.7	21.4	22.3	23.0
	6H	17.2	18.0	17.8	18.7	19.3	22.1	22.9	22.7	23.5	24.2
	8H	17.3	18.1	17.9	18.7	19.3	22.8	23.6	23.4	24.2	24.9
	12H	17.3	18.0	17.9	18.6	19.3	23.5	24.2	24.2	24.9	25.6

8H	4H	17.6	18.4	18.2	19.0	19.7	20.9	21.7	21.5	22.3	23.0
	6H	18.0	18.7	18.7	19.3	20.0	22.4	23.1	23.1	23.7	24.4
	8H	18.2	18.7	18.8	19.4	20.1	23.2	23.8	23.9	24.5	25.2
	12H	18.2	18.7	18.9	19.4	20.2	24.1	24.6	24.8	25.3	26.1

12H	4H	17.8	18.5	18.4	19.1	19.8	20.9	21.6	21.5	22.3	23.0
	6H	18.3	18.9	19.0	19.5	20.3	22.4	23.0	23.1	23.6	24.4
	8H	18.5	19.0	19.2	19.7	20.5	23.3	23.8	23.9	24.5	25.2

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 483.238 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.)