



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-(L45)-DIM-UNV\_.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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-835-(L45)-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	4613
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	28.6
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	16612	13405	12674
55	14084	11237	11357
65	11059	9602	10316
75	7616	7849	9153
85	3403	6658	8023

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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>
<b>0</b>	1556.456	1556.456	1556.456	1556.456	1556.456
<b>5</b>	1569.843	1550.114	1549.410	1545.887	1527.567
<b>10</b>	1543.068	1525.454	1526.863	1522.635	1505.725
<b>15</b>	1500.088	1483.178	1487.405	1483.178	1469.086
<b>20</b>	1428.219	1415.536	1428.219	1421.878	1407.081
<b>25</b>	1339.440	1334.508	1345.781	1345.077	1323.234
<b>30</b>	1241.501	1243.615	1256.297	1256.297	1229.523
<b>35</b>	1121.719	1138.630	1144.971	1147.085	1119.605
<b>40</b>	991.369	1016.734	1011.097	1022.371	1008.279
<b>45</b>	863.837	886.384	884.974	905.408	901.885
<b>50</b>	733.486	753.919	770.125	804.650	811.696
<b>55</b>	599.612	624.978	660.912	712.348	735.600
<b>60</b>	473.490	504.492	565.792	629.206	659.503
<b>65</b>	352.299	401.621	478.422	550.995	581.998
<b>70</b>	241.677	306.500	388.938	467.853	504.492
<b>75</b>	153.602	215.607	308.614	387.529	424.168
<b>80</b>	83.847	143.738	242.382	314.250	348.071
<b>85</b>	26.775	88.075	183.900	248.018	279.725
<b>90</b>	0.000	57.072	140.215	200.106	221.948
<b>95</b>	0.000	52.140	131.055	183.195	195.878
<b>100</b>	0.000	49.322	121.895	166.990	178.263
<b>105</b>	0.000	45.094	114.145	154.307	165.580
<b>110</b>	0.000	42.276	106.394	144.442	155.716
<b>115</b>	0.000	38.753	97.234	135.283	145.852
<b>120</b>	0.000	33.116	87.370	122.600	135.283
<b>125</b>	0.000	27.479	78.915	112.031	123.305
<b>130</b>	0.000	22.547	68.346	100.053	107.803
<b>135</b>	0.000	20.433	54.959	86.665	94.416
<b>140</b>	0.000	16.910	42.980	72.574	80.324
<b>145</b>	0.000	13.387	33.116	56.368	64.118
<b>150</b>	0.000	9.864	25.366	42.980	49.322
<b>155</b>	0.000	7.751	20.433	31.002	35.934
<b>160</b>	0.000	0.000	14.797	22.547	25.366
<b>165</b>	0.000	0.000	9.864	16.206	17.615
<b>170</b>	0.000	0.000	0.000	9.864	10.569
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	565.03	N.A.	12.20
0-30	1181.9	N.A.	25.60
0-40	1891.99	N.A.	41.00
0-60	3179.21	N.A.	68.90
0-80	3970.16	N.A.	86.10
0-90	4159.03	N.A.	90.20
10-90	4011.96	N.A.	87.00
20-40	1326.96	N.A.	28.80
20-50	2015.69	N.A.	43.70
40-70	1757.71	N.A.	38.10
60-80	790.96	N.A.	17.10
70-80	320.46	N.A.	6.90
80-90	188.86	N.A.	4.10
90-110	232.39	N.A.	5.00
90-120	317.47	N.A.	6.90
90-130	380.14	N.A.	8.20
90-150	442.34	N.A.	9.60
90-180	454.00	N.A.	9.80
110-180	221.61	N.A.	4.80
0-180	4613.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.06
10-20	417.96
20-30	616.87
30-40	710.09
40-50	688.73
50-60	598.49
60-70	470.49
70-80	320.46
80-90	188.86
90-100	127.15
100-110	105.24
110-120	85.07
120-130	62.67
130-140	40.62
140-150	21.58
150-160	9.03
160-170	2.49
170-180	0.14

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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	18.4	19.8	18.9	20.3	20.9	20.6	22.1	21.2	22.6	23.1
	3H	19.6	20.8	20.1	21.4	21.9	23.0	24.3	23.6	24.8	25.4
	4H	19.9	21.1	20.4	21.6	22.2	24.2	25.4	24.7	25.9	26.5
	6H	20.0	21.2	20.6	21.7	22.3	25.3	26.4	25.9	27.0	27.6
	8H	20.0	21.1	20.6	21.7	22.3	25.9	27.0	26.5	27.5	28.2
	12H	20.0	21.1	20.6	21.6	22.3	26.5	27.5	27.1	28.1	28.8

UGR Viewed Endwise

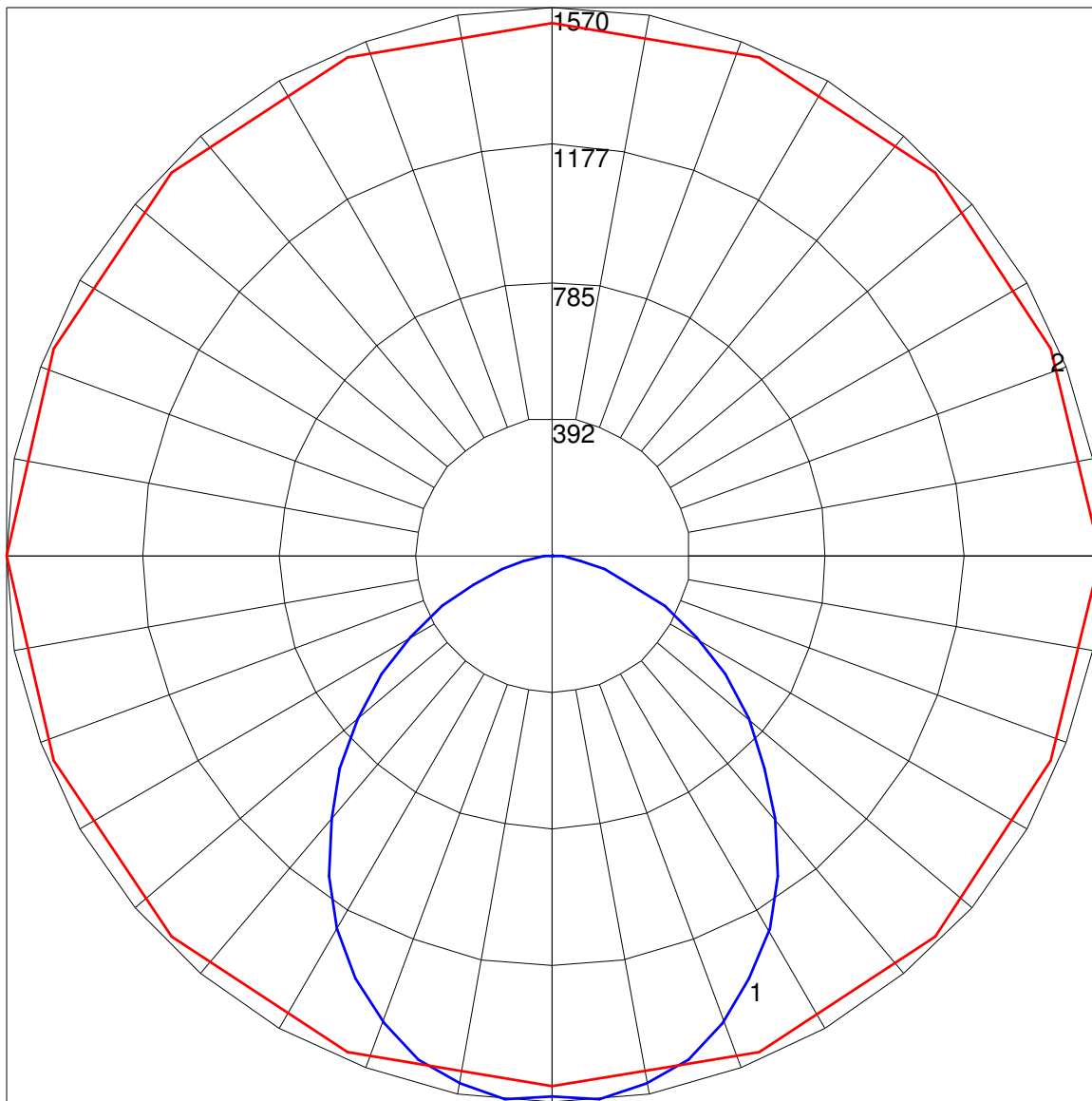
4H	2H	19.2	20.4	19.7	20.9	21.6	21.0	22.2	21.5	22.7	23.4
	3H	20.6	21.6	21.2	22.2	22.9	23.6	24.6	24.2	25.2	25.8
	4H	21.1	22.0	21.6	22.6	23.2	24.9	25.8	25.5	26.4	27.1
	6H	21.3	22.1	21.9	22.8	23.4	26.2	27.0	26.8	27.6	28.3
	8H	21.4	22.1	22.0	22.8	23.4	26.9	27.7	27.5	28.3	29.0
	12H	21.4	22.1	22.0	22.7	23.4	27.6	28.3	28.2	29.0	29.7

8H	4H	21.7	22.5	22.3	23.1	23.8	25.0	25.8	25.6	26.4	27.1
	6H	22.1	22.8	22.8	23.4	24.1	26.5	27.2	27.2	27.8	28.5
	8H	22.3	22.8	22.9	23.5	24.2	27.3	27.9	28.0	28.6	29.3
	12H	22.3	22.8	23.0	23.5	24.3	28.2	28.7	28.9	29.4	30.2

12H	4H	21.9	22.6	22.5	23.2	23.9	25.0	25.7	25.6	26.4	27.1
	6H	22.4	23.0	23.1	23.6	24.4	26.5	27.1	27.2	27.7	28.5
	8H	22.6	23.1	23.3	23.8	24.6	27.4	27.9	28.0	28.6	29.3

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 1569.843 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.)