



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L60-835-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] 05-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-L60-835-DIM-UNV

[\_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	5465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	35.5
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)	7.44 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	9946	7987	7505
55	8471	6708	6725
65	6702	5746	6109
75	4691	4714	5420
85	2243	4025	4751

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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>	1843.926	1843.926	1843.926	1843.926	1843.926
<b>5</b>	1859.786	1836.414	1835.579	1831.405	1809.702
<b>10</b>	1828.066	1807.198	1808.867	1803.859	1783.825
<b>15</b>	1777.147	1757.114	1762.122	1757.114	1740.419
<b>20</b>	1692.005	1676.979	1692.005	1684.492	1666.963
<b>25</b>	1586.828	1580.985	1594.341	1593.506	1567.629
<b>30</b>	1470.800	1473.304	1488.330	1488.330	1456.610
<b>35</b>	1328.896	1348.929	1356.442	1358.946	1326.391
<b>40</b>	1174.470	1204.520	1197.842	1211.198	1194.504
<b>45</b>	1023.383	1050.095	1048.425	1072.632	1068.459
<b>50</b>	868.957	893.165	912.364	953.266	961.613
<b>55</b>	710.358	740.409	782.980	843.915	871.462
<b>60</b>	560.941	597.669	670.291	745.417	781.310
<b>65</b>	417.367	475.798	566.784	652.762	689.490
<b>70</b>	286.314	363.109	460.773	554.263	597.669
<b>75</b>	181.972	255.428	365.613	459.103	502.510
<b>80</b>	99.333	170.286	287.148	372.291	412.358
<b>85</b>	31.720	104.342	217.865	293.826	331.389
<b>90</b>	0.000	67.613	166.112	237.064	262.941
<b>95</b>	0.000	61.770	155.260	217.031	232.056
<b>100</b>	0.000	58.431	144.409	197.832	211.188
<b>105</b>	0.000	53.423	135.227	182.807	196.162
<b>110</b>	0.000	50.084	126.045	171.120	184.476
<b>115</b>	0.000	45.910	115.193	160.269	172.790
<b>120</b>	0.000	39.232	103.507	145.244	160.269
<b>125</b>	0.000	32.555	93.490	132.723	146.078
<b>130</b>	0.000	26.711	80.969	118.532	127.714
<b>135</b>	0.000	24.207	65.109	102.672	111.854
<b>140</b>	0.000	20.034	50.919	85.978	95.160
<b>145</b>	0.000	15.860	39.232	66.779	75.961
<b>150</b>	0.000	11.686	30.050	50.919	58.431
<b>155</b>	0.000	9.182	24.207	36.728	42.571
<b>160</b>	0.000	0.000	17.529	26.711	30.050
<b>165</b>	0.000	0.000	11.686	19.199	20.868
<b>170</b>	0.000	0.000	0.000	11.686	12.521
<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	669.38	N.A.	12.20
0-30	1400.19	N.A.	25.60
0-40	2241.43	N.A.	41.00
0-60	3766.39	N.A.	68.90
0-80	4703.43	N.A.	86.10
0-90	4927.18	N.A.	90.20
10-90	4752.95	N.A.	87.00
20-40	1572.05	N.A.	28.80
20-50	2387.98	N.A.	43.70
40-70	2082.35	N.A.	38.10
60-80	937.04	N.A.	17.10
70-80	379.65	N.A.	6.90
80-90	223.75	N.A.	4.10
90-110	275.32	N.A.	5.00
90-120	376.10	N.A.	6.90
90-130	450.35	N.A.	8.20
90-150	524.04	N.A.	9.60
90-180	537.85	N.A.	9.80
110-180	262.54	N.A.	4.80
0-180	5465.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.23
10-20	495.16
20-30	730.81
30-40	841.24
40-50	815.94
50-60	709.02
60-70	557.39
70-80	379.65
80-90	223.75
90-100	150.64
100-110	124.68
110-120	100.79
120-130	74.25
130-140	48.12
140-150	25.57
150-160	10.70
160-170	2.95
170-180	0.16

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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	143	143	143	143	138	138	138	138	130	130	130	121	121	121	114	114	114	111
1	130	123	118	113	125	119	114	110	112	108	104	105	102	99	99	96	94	90
2	118	107	99	92	113	104	96	90	98	91	86	92	87	82	87	82	78	75
3	107	94	84	76	103	92	82	75	86	78	72	81	75	69	77	71	67	63
4	98	84	73	65	95	81	71	64	77	68	62	73	65	59	69	62	57	54
5	91	75	64	56	87	73	63	55	69	60	53	65	58	52	62	55	50	47
6	84	68	57	49	81	66	56	48	62	54	47	59	52	46	56	50	44	42
7	78	61	51	43	75	60	50	43	57	48	42	54	46	41	51	45	39	37
8	72	56	46	39	70	55	45	38	52	44	37	50	42	36	47	41	35	33
9	68	52	42	35	65	50	41	35	48	40	34	46	38	33	44	37	32	30
10	64	48	38	32	61	47	37	31	45	36	31	43	35	30	41	34	29	27

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**UGR TABLE - CORRECTED**

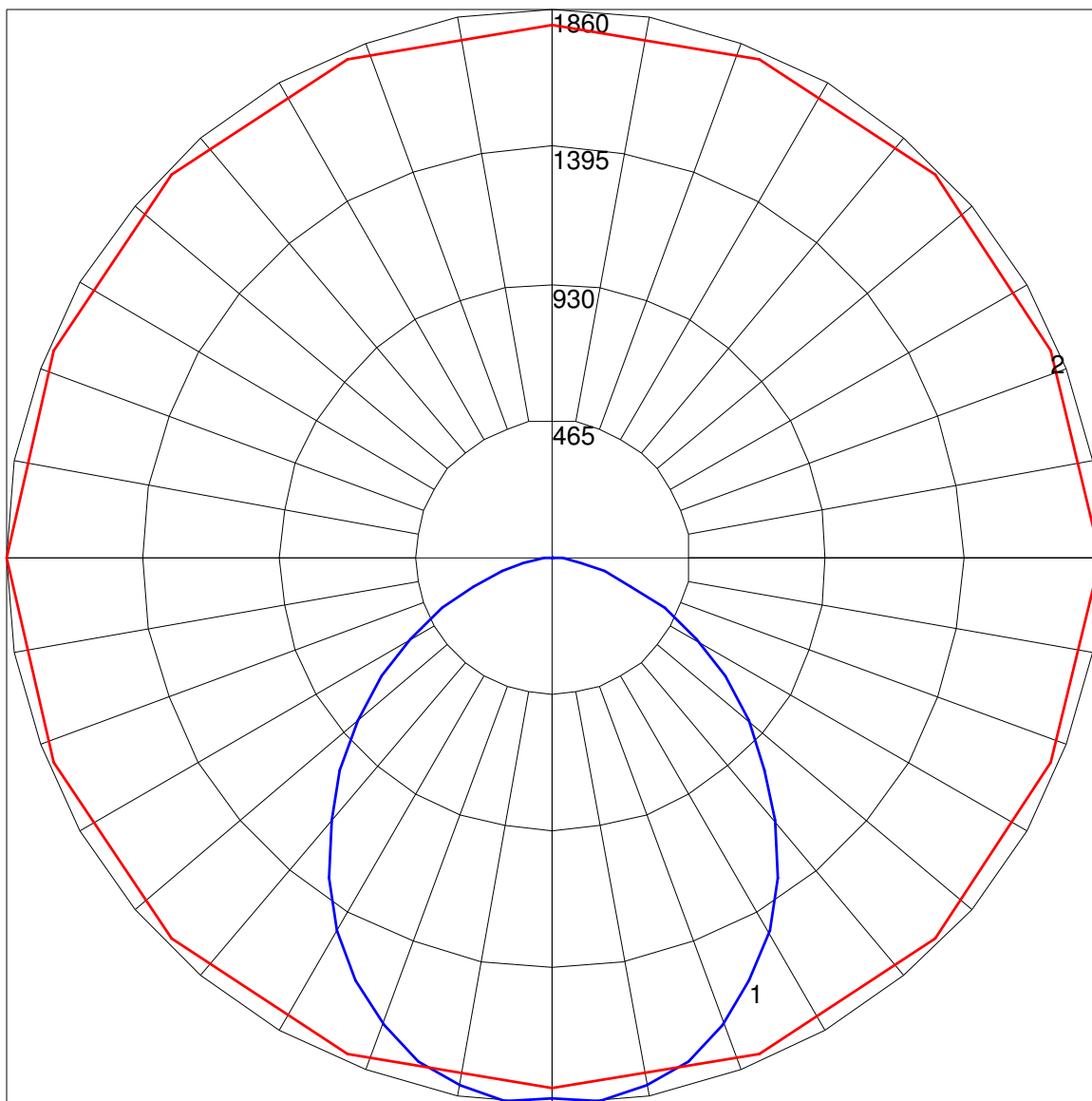
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.2	20.6	19.7	21.1	21.7	20.5	22.0	21.1	22.5	23.0
	3H	20.6	21.9	21.2	22.4	23.0	22.9	24.2	23.5	24.7	25.3
	4H	21.1	22.3	21.6	22.8	23.4	24.1	25.3	24.6	25.8	26.4
	6H	21.3	22.5	21.9	23.0	23.6	25.2	26.3	25.8	26.9	27.5
	8H	21.4	22.5	22.0	23.1	23.7	25.8	26.9	26.4	27.4	28.1
	12H	21.4	22.5	22.0	23.0	23.7	26.4	27.4	27.0	28.0	28.7
4H	2H	19.8	21.0	20.4	21.6	22.2	20.9	22.1	21.4	22.6	23.3
	3H	21.4	22.5	22.0	23.1	23.7	23.5	24.5	24.1	25.1	25.7
	4H	22.0	23.0	22.6	23.5	24.2	24.8	25.7	25.4	26.3	27.0
	6H	22.4	23.3	23.0	23.9	24.5	26.1	26.9	26.7	27.5	28.2
	8H	22.5	23.3	23.2	23.9	24.6	26.8	27.6	27.4	28.2	28.9
	12H	22.6	23.3	23.2	24.0	24.6	27.5	28.2	28.1	28.9	29.6
8H	4H	22.5	23.2	23.1	23.8	24.5	24.9	25.7	25.5	26.3	27.0
	6H	23.0	23.7	23.7	24.3	25.0	26.4	27.1	27.1	27.7	28.4
	8H	23.2	23.8	23.9	24.5	25.2	27.2	27.8	27.9	28.5	29.2
	12H	23.4	23.9	24.0	24.5	25.3	28.1	28.6	28.8	29.3	30.1
12H	4H	22.5	23.2	23.2	23.9	24.6	24.9	25.6	25.5	26.3	27.0
	6H	23.2	23.8	23.9	24.4	25.2	26.4	27.0	27.1	27.6	28.4
	8H	23.5	24.0	24.1	24.6	25.4	27.3	27.8	27.9	28.5	29.2

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1859.786 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.)