



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L56-8FS-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-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-L56-8FS-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	5366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	34.7
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	9766	7842	7369
55	8318	6586	6604
65	6581	5642	5999
75	4606	4628	5322
85	2202	3952	4665

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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>	1810.523	1810.523	1810.523	1810.523	1810.523
<b>5</b>	1826.096	1803.146	1802.327	1798.229	1776.919
<b>10</b>	1794.950	1774.460	1776.099	1771.182	1751.511
<b>15</b>	1744.954	1725.283	1730.201	1725.283	1708.891
<b>20</b>	1661.354	1646.601	1661.354	1653.977	1636.765
<b>25</b>	1558.082	1552.345	1565.459	1564.639	1539.231
<b>30</b>	1444.156	1446.615	1461.368	1461.368	1430.223
<b>35</b>	1304.822	1324.493	1331.870	1334.328	1302.364
<b>40</b>	1153.194	1182.700	1176.143	1189.257	1172.865
<b>45</b>	1004.844	1031.072	1029.433	1053.201	1049.103
<b>50</b>	853.216	876.985	895.836	935.997	944.193
<b>55</b>	697.490	726.996	768.796	828.628	855.675
<b>60</b>	550.779	586.842	658.148	731.914	767.157
<b>65</b>	409.806	467.179	556.517	640.937	677.000
<b>70</b>	281.127	356.531	452.426	544.222	586.842
<b>75</b>	178.675	250.801	358.990	450.787	493.406
<b>80</b>	97.534	167.201	281.947	365.547	404.888
<b>85</b>	31.145	102.452	213.919	288.503	325.386
<b>90</b>	0.000	66.389	163.103	232.770	258.178
<b>95</b>	0.000	60.651	152.448	213.099	227.852
<b>100</b>	0.000	57.373	141.793	194.248	207.362
<b>105</b>	0.000	52.455	132.777	179.495	192.609
<b>110</b>	0.000	49.177	123.761	168.020	181.134
<b>115</b>	0.000	45.079	113.106	157.366	169.660
<b>120</b>	0.000	38.522	101.632	142.612	157.366
<b>125</b>	0.000	31.965	91.797	130.318	143.432
<b>130</b>	0.000	26.228	79.502	116.385	125.401
<b>135</b>	0.000	23.769	63.930	100.812	109.828
<b>140</b>	0.000	19.671	49.996	84.420	93.436
<b>145</b>	0.000	15.573	38.522	65.569	74.585
<b>150</b>	0.000	11.475	29.506	49.996	57.373
<b>155</b>	0.000	9.016	23.769	36.063	41.800
<b>160</b>	0.000	0.000	17.212	26.228	29.506
<b>165</b>	0.000	0.000	11.475	18.851	20.490
<b>170</b>	0.000	0.000	0.000	11.475	12.294
<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	657.26	N.A.	12.20
0-30	1374.83	N.A.	25.60
0-40	2200.83	N.A.	41.00
0-60	3698.16	N.A.	68.90
0-80	4618.23	N.A.	86.10
0-90	4837.92	N.A.	90.20
10-90	4666.85	N.A.	87.00
20-40	1543.57	N.A.	28.80
20-50	2344.72	N.A.	43.70
40-70	2044.63	N.A.	38.10
60-80	920.07	N.A.	17.10
70-80	372.77	N.A.	6.90
80-90	219.69	N.A.	4.10
90-110	270.33	N.A.	5.00
90-120	369.29	N.A.	6.90
90-130	442.20	N.A.	8.20
90-150	514.55	N.A.	9.60
90-180	528.11	N.A.	9.80
110-180	257.78	N.A.	4.80
0-180	5366.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	171.07
10-20	486.19
20-30	717.57
30-40	826.00
40-50	801.16
50-60	696.18
60-70	547.29
70-80	372.77
80-90	219.69
90-100	147.91
100-110	122.42
110-120	98.96
120-130	72.91
130-140	47.25
140-150	25.11
150-160	10.50
160-170	2.90
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	247	247	247	247	239	239	239	239	223	223	223	210	210	210	197	197	197	191
1	224	213	203	194	216	206	197	189	193	186	179	181	176	170	170	166	162	156
2	203	185	170	158	196	179	166	155	169	157	148	159	149	141	149	142	135	129
3	185	163	145	132	178	158	142	129	149	135	124	140	129	119	132	123	115	109
4	170	145	126	112	163	140	123	110	132	118	106	125	113	103	118	108	99	94
5	156	129	111	97	150	126	108	95	119	104	92	113	100	89	107	95	86	81
6	145	117	98	85	139	114	96	83	108	92	81	102	89	79	97	85	76	72
7	134	106	88	75	129	103	86	74	98	83	72	93	80	70	89	77	68	64
8	125	97	79	67	121	94	78	66	90	75	64	86	72	63	82	70	61	57
9	117	89	72	60	113	87	71	60	83	68	58	79	66	57	76	64	55	51
10	110	82	66	55	106	80	65	54	77	63	53	73	61	52	70	59	51	47

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**UGR TABLE - CORRECTED**

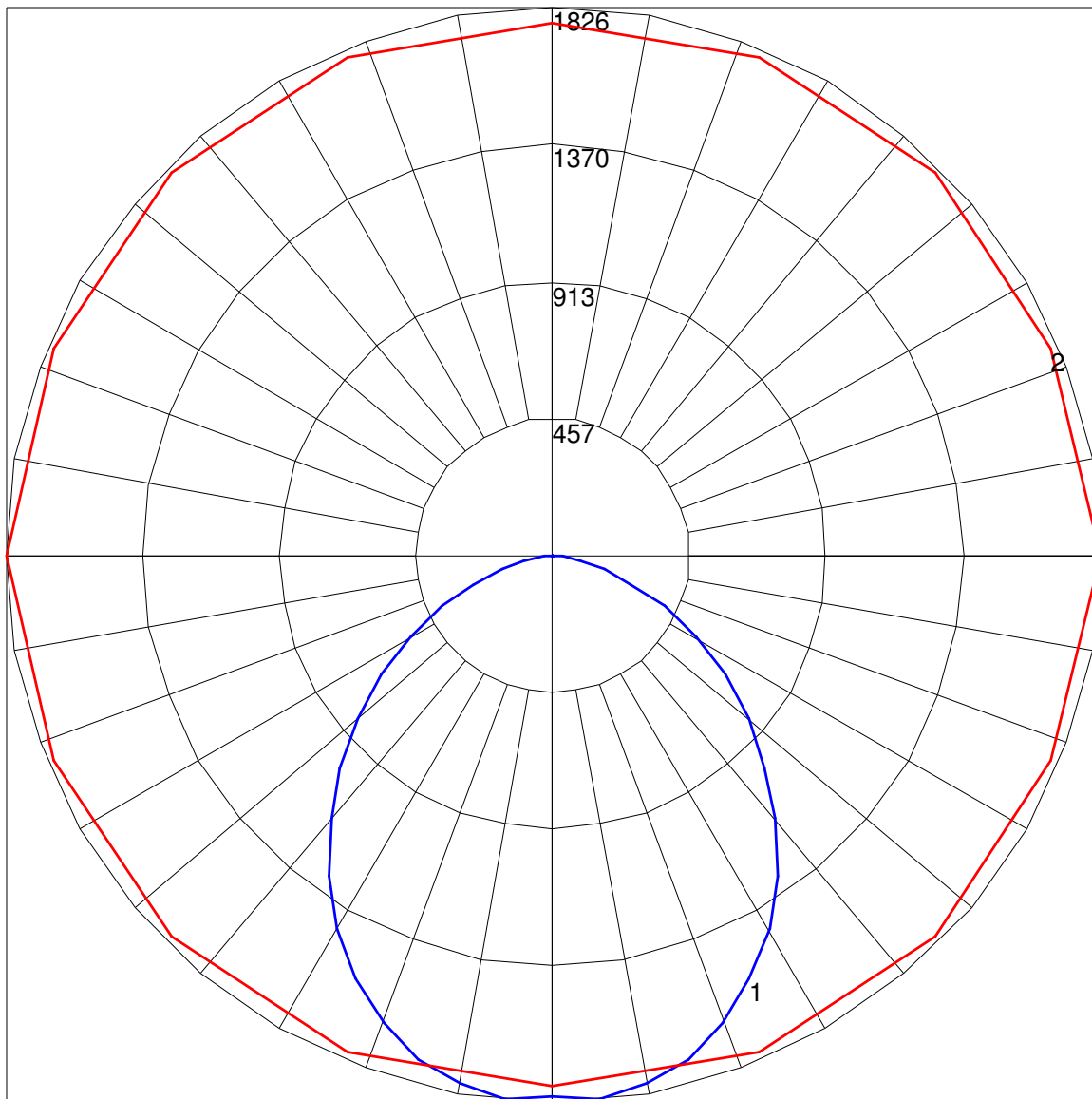
Reflectances

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	17.2	18.6	17.7	19.1	19.7	18.5	20.0	19.1	20.5	21.0
	3H	18.6	19.9	19.1	20.4	21.0	20.9	22.2	21.5	22.7	23.3
	4H	19.1	20.3	19.6	20.8	21.4	22.1	23.3	22.6	23.8	24.4
	6H	19.3	20.5	19.9	21.0	21.6	23.2	24.3	23.8	24.9	25.5
	8H	19.4	20.5	20.0	21.1	21.7	23.8	24.9	24.4	25.4	26.1
	12H	19.4	20.5	20.0	21.0	21.7	24.4	25.4	25.0	26.0	26.7
4H	2H	17.8	19.0	18.4	19.6	20.2	18.9	20.1	19.4	20.6	21.3
	3H	19.4	20.5	20.0	21.1	21.7	21.5	22.5	22.1	23.1	23.7
	4H	20.0	21.0	20.6	21.5	22.2	22.8	23.7	23.4	24.3	25.0
	6H	20.4	21.3	21.0	21.9	22.5	24.1	24.9	24.7	25.5	26.2
	8H	20.5	21.3	21.1	21.9	22.6	24.8	25.6	25.4	26.2	26.9
	12H	20.6	21.3	21.2	21.9	22.6	25.5	26.2	26.1	26.9	27.6
8H	4H	20.4	21.2	21.1	21.8	22.5	22.9	23.7	23.5	24.3	25.0
	6H	21.0	21.7	21.7	22.3	23.0	24.4	25.1	25.1	25.7	26.4
	8H	21.2	21.8	21.9	22.5	23.2	25.2	25.8	25.9	26.5	27.2
	12H	21.4	21.9	22.0	22.5	23.3	26.1	26.6	26.8	27.3	28.1
12H	4H	20.5	21.2	21.2	21.9	22.6	22.9	23.6	23.5	24.3	25.0
	6H	21.2	21.8	21.9	22.4	23.2	24.4	25.0	25.1	25.6	26.4
	8H	21.5	22.0	22.1	22.6	23.4	25.3	25.8	25.9	26.5	27.2

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1826.096 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.)