



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-P72-8TW-POE\_.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] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-P72-8TW-PoE

[\_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	6792
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	45.3
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	24460	19737	18661
55	20737	16545	16721
65	16283	14138	15190
75	11214	11556	13476
85	5010	9803	11813

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P72-8TW-POE\_.IES**

**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>	2291.665	2291.665	2291.665	2291.665	2291.665
<b>5</b>	2311.376	2282.328	2281.291	2276.104	2249.131
<b>10</b>	2271.954	2246.019	2248.093	2241.869	2216.971
<b>15</b>	2208.671	2183.773	2189.998	2183.773	2163.025
<b>20</b>	2102.854	2084.181	2102.854	2093.517	2071.732
<b>25</b>	1972.139	1964.877	1981.476	1980.438	1948.278
<b>30</b>	1827.937	1831.050	1849.723	1849.723	1810.301
<b>35</b>	1651.576	1676.474	1685.811	1688.923	1648.463
<b>40</b>	1459.653	1497.000	1488.700	1505.299	1484.551
<b>45</b>	1271.879	1305.077	1303.002	1333.087	1327.900
<b>50</b>	1079.956	1110.041	1133.902	1184.736	1195.110
<b>55</b>	882.846	920.193	973.102	1048.834	1083.069
<b>60</b>	697.148	742.794	833.050	926.418	971.027
<b>65</b>	518.711	591.331	704.409	811.264	856.911
<b>70</b>	355.836	451.279	572.657	688.848	742.794
<b>75</b>	226.158	317.451	454.391	570.582	624.528
<b>80</b>	123.453	211.634	356.873	462.690	512.486
<b>85</b>	39.422	129.678	270.767	365.173	411.857
<b>90</b>	0.000	84.031	206.447	294.628	326.788
<b>95</b>	0.000	76.769	192.960	269.730	288.403
<b>100</b>	0.000	72.620	179.474	245.869	262.468
<b>105</b>	0.000	66.395	168.062	227.195	243.794
<b>110</b>	0.000	62.245	156.651	212.671	229.270
<b>115</b>	0.000	57.058	143.164	199.185	214.746
<b>120</b>	0.000	48.759	128.640	180.511	199.185
<b>125</b>	0.000	40.459	116.191	164.950	181.549
<b>130</b>	0.000	33.198	100.630	147.314	158.726
<b>135</b>	0.000	30.085	80.919	127.603	139.015
<b>140</b>	0.000	24.898	63.283	106.854	118.266
<b>145</b>	0.000	19.711	48.759	82.994	94.405
<b>150</b>	0.000	14.524	37.347	63.283	72.620
<b>155</b>	0.000	11.412	30.085	45.647	52.909
<b>160</b>	0.000	0.000	21.786	33.198	37.347
<b>165</b>	0.000	0.000	14.524	23.861	25.936
<b>170</b>	0.000	0.000	0.000	14.524	15.561
<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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P72-8TW-POE\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	831.92	N.A.	12.20
0-30	1740.18	N.A.	25.60
0-40	2785.69	N.A.	41.00
0-60	4680.94	N.A.	68.90
0-80	5845.51	N.A.	86.10
0-90	6123.59	N.A.	90.20
10-90	5907.06	N.A.	87.00
20-40	1953.77	N.A.	28.80
20-50	2967.83	N.A.	43.70
40-70	2587.98	N.A.	38.10
60-80	1164.57	N.A.	17.10
70-80	471.84	N.A.	6.90
80-90	278.08	N.A.	4.10
90-110	342.17	N.A.	5.00
90-120	467.43	N.A.	6.90
90-130	559.71	N.A.	8.20
90-150	651.29	N.A.	9.60
90-180	668.45	N.A.	9.80
110-180	326.29	N.A.	4.80
0-180	6792.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	216.53
10-20	615.39
20-30	908.26
30-40	1045.51
40-50	1014.06
50-60	881.19
60-70	692.74
70-80	471.84
80-90	278.08
90-100	187.22
100-110	154.95
110-120	125.26
120-130	92.28
130-140	59.80
140-150	31.78
150-160	13.30
160-170	3.67
170-180	0.20

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P72-8TW-POE\_.IES**

**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	238	238	238	238	223	223	223	209	209	209	196	196	196	190
1	223	212	203	194	215	206	197	189	193	186	179	181	175	170	170	166	161	156
2	203	185	170	158	195	179	166	154	168	157	148	158	149	141	149	142	135	129
3	185	163	145	131	178	158	142	129	148	135	124	140	129	119	132	123	115	109
4	170	144	126	112	163	140	123	110	132	118	106	125	112	102	118	108	99	94
5	156	129	110	96	150	126	108	95	119	104	92	112	99	89	107	95	86	81
6	144	117	98	84	139	113	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	120	94	78	66	90	75	64	86	72	63	82	70	61	57
9	117	89	72	60	113	87	71	59	83	68	58	79	66	57	76	64	55	51
10	109	82	66	55	106	80	65	54	77	63	53	73	61	52	70	59	50	47

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P72-8TW-POE\_.IES**

**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	18.1	19.5	18.6	20.0	20.6	19.4	20.9	20.0	21.4	21.9
	3H	19.5	20.8	20.0	21.3	21.9	21.8	23.1	22.4	23.6	24.2
	4H	20.0	21.2	20.5	21.7	22.3	23.0	24.2	23.5	24.7	25.3
	6H	20.2	21.4	20.8	21.9	22.5	24.1	25.2	24.7	25.8	26.4
	8H	20.3	21.4	20.9	22.0	22.6	24.7	25.8	25.3	26.3	27.0
	12H	20.3	21.4	20.9	21.9	22.6	25.3	26.3	25.9	26.9	27.6

UGR Viewed Endwise

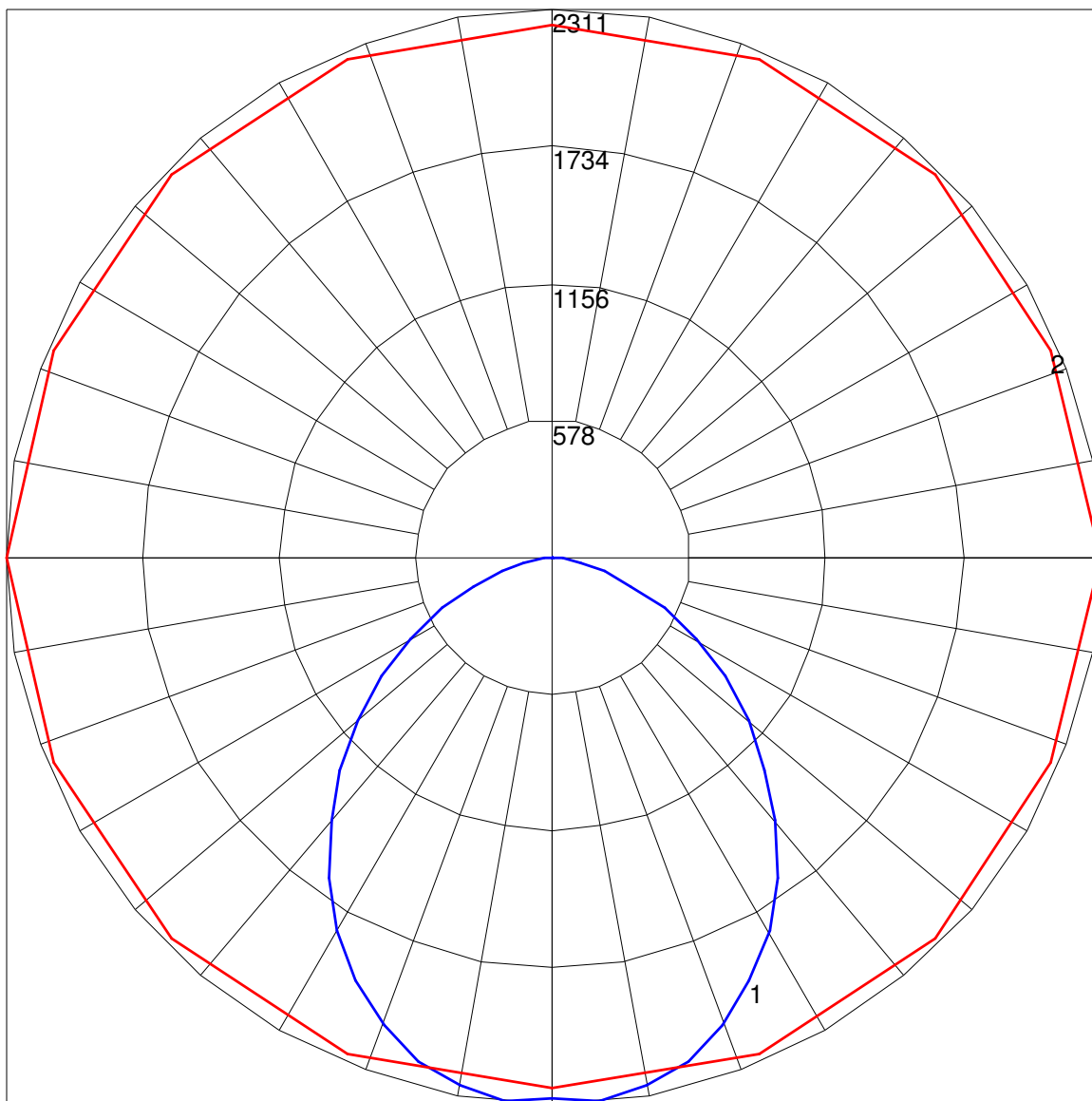
4H	2H	18.7	19.9	19.3	20.5	21.1	19.8	21.0	20.3	21.5	22.2
	3H	20.3	21.4	20.9	22.0	22.6	22.4	23.4	23.0	24.0	24.6
	4H	20.9	21.9	21.5	22.4	23.1	23.7	24.6	24.3	25.2	25.9
	6H	21.3	22.2	21.9	22.8	23.4	25.0	25.8	25.6	26.4	27.1
	8H	21.4	22.2	22.0	22.8	23.5	25.7	26.5	26.3	27.1	27.8
	12H	21.5	22.2	22.1	22.8	23.5	26.4	27.1	27.0	27.8	28.5

8H	4H	21.3	22.1	22.0	22.7	23.4	23.8	24.6	24.4	25.2	25.9
	6H	21.9	22.6	22.6	23.2	23.9	25.3	26.0	26.0	26.6	27.3
	8H	22.1	22.7	22.8	23.4	24.1	26.1	26.7	26.8	27.4	28.1
	12H	22.3	22.8	22.9	23.4	24.2	27.0	27.5	27.7	28.2	29.0

12H	4H	21.4	22.1	22.1	22.8	23.5	23.8	24.5	24.4	25.2	25.9
	6H	22.1	22.7	22.8	23.3	24.1	25.3	25.9	26.0	26.5	27.3
	8H	22.4	22.9	23.0	23.5	24.3	26.2	26.7	26.8	27.4	28.1

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 2311.376 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.)