



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-P72-8TW-POEN 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 25-OCT-2019

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

[LUMINAIRE] 4' PoE STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-P72/8TW-PoEN 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	45.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32816	31390	30968
55	31990	30262	29646
65	29817	27469	26619
75	25140	22216	21305
85	13187	12551	10362

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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>	2453.000	2453.000	2453.000	2453.000	2453.000
<b>5</b>	2470.924	2455.561	2445.319	2438.491	2435.930
<b>10</b>	2443.612	2428.248	2416.299	2409.471	2406.057
<b>15</b>	2402.643	2383.012	2371.063	2360.821	2364.235
<b>20</b>	2337.776	2321.559	2307.903	2297.661	2303.635
<b>25</b>	2255.838	2242.182	2222.551	2214.016	2210.602
<b>30</b>	2163.659	2144.028	2121.837	2115.009	2097.085
<b>35</b>	2045.874	2029.657	2004.052	1998.931	1980.153
<b>40</b>	1909.312	1875.171	1861.515	1852.126	1847.005
<b>45</b>	1749.704	1707.882	1699.347	1691.665	1685.691
<b>50</b>	1573.027	1534.619	1527.791	1524.377	1504.746
<b>55</b>	1384.400	1344.285	1338.311	1338.311	1321.240
<b>60</b>	1179.557	1143.709	1126.639	1134.321	1108.715
<b>65</b>	951.669	925.210	905.579	921.796	887.655
<b>70</b>	721.220	687.933	677.690	694.761	668.302
<b>75</b>	492.478	460.044	460.044	460.044	449.802
<b>80</b>	262.029	256.908	256.908	252.640	242.398
<b>85</b>	87.912	92.180	98.154	93.887	85.351
<b>90</b>	7.682	7.682	11.949	7.682	7.682
<b>95</b>	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<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	903.36	N.A.	12.50
0-30	1930.75	N.A.	26.70
0-40	3187.32	N.A.	44.10
0-60	5700.77	N.A.	78.90
0-80	7100.27	N.A.	98.30
0-90	7222.44	N.A.	100.00
10-90	6989.71	N.A.	96.70
20-40	2283.96	N.A.	31.60
20-50	3598.93	N.A.	49.80
40-70	3419.96	N.A.	47.30
60-80	1399.49	N.A.	19.40
70-80	492.99	N.A.	6.80
80-90	122.17	N.A.	1.70
90-110	2.40	N.A.	0.00
90-120	2.40	N.A.	0.00
90-130	2.40	N.A.	0.00
90-150	2.40	N.A.	0.00
90-180	2.40	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7224.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	232.73
10-20	670.63
20-30	1027.39
30-40	1256.57
40-50	1314.97
50-60	1198.48
60-70	906.50
70-80	492.99
80-90	122.17
90-100	2.40
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	251	251	251	251	246	246	246	246	235	235	235	225	225	225	215	215	215	211
1	230	220	211	202	224	215	207	199	206	199	193	197	192	187	190	185	181	177
2	209	191	177	164	203	187	174	162	180	168	159	173	163	155	166	158	151	147
3	190	168	150	136	185	164	148	135	158	144	133	152	140	130	147	137	128	123
4	174	148	129	115	169	145	128	114	140	125	113	135	122	111	130	119	110	105
5	160	132	113	99	155	130	112	98	125	109	97	121	107	96	117	105	95	91
6	147	119	100	86	143	117	99	86	113	97	85	109	95	84	106	93	83	79
7	136	108	89	76	133	106	88	76	103	87	75	100	85	74	97	84	74	70
8	127	98	80	68	124	97	79	67	94	78	67	91	77	66	89	76	66	62
9	119	90	72	61	116	89	72	60	86	71	60	84	70	60	82	69	59	56
10	111	83	66	55	108	82	66	55	80	65	55	78	64	54	76	63	54	50

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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	21.6	23.3	22.0	23.6	23.9	21.5	23.2	21.9	23.5	23.8
	3H	23.4	24.9	23.8	25.2	25.6	23.3	24.8	23.6	25.1	25.4
	4H	24.1	25.5	24.5	25.8	26.2	23.9	25.3	24.3	25.6	26.0
	6H	24.5	25.8	24.9	26.1	26.5	24.2	25.5	24.6	25.9	26.3
	8H	24.6	25.8	25.0	26.2	26.6	24.3	25.6	24.8	26.0	26.4
	12H	24.6	25.8	25.1	26.2	26.6	24.4	25.6	24.8	26.0	26.4

UGR Viewed Endwise

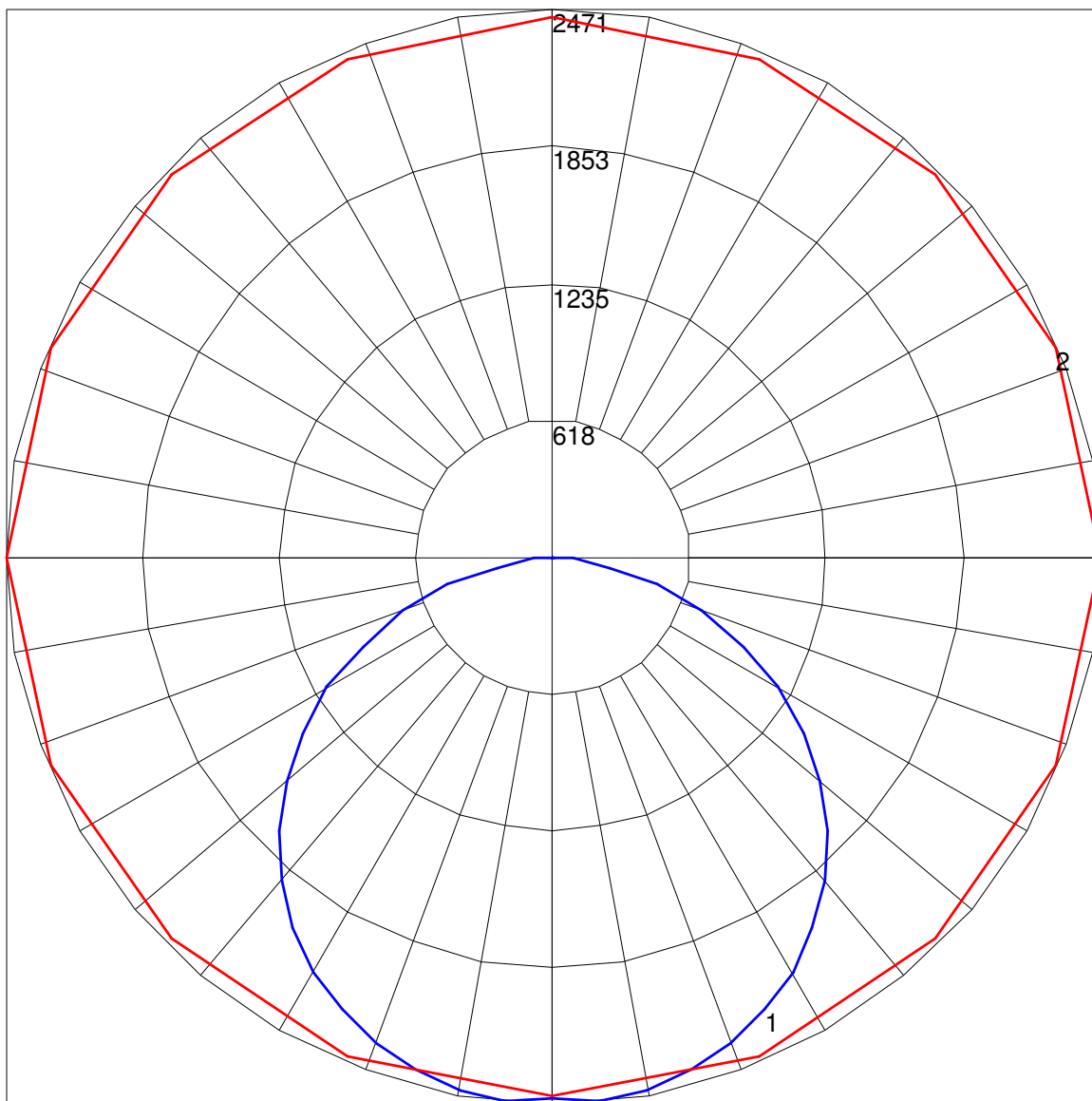
4H	2H	22.2	23.6	22.6	24.0	24.3	22.1	23.5	22.5	23.9	24.3
	3H	24.2	25.4	24.6	25.8	26.2	24.1	25.3	24.5	25.7	26.1
	4H	25.0	26.0	25.4	26.4	26.9	24.8	25.9	25.2	26.3	26.7
	6H	25.5	26.4	25.9	26.8	27.3	25.3	26.2	25.8	26.7	27.1
	8H	25.6	26.5	26.1	26.9	27.4	25.4	26.3	25.9	26.8	27.2
	12H	25.7	26.5	26.2	27.0	27.4	25.5	26.3	26.0	26.8	27.2

8H	4H	25.2	26.1	25.7	26.5	27.0	25.1	25.9	25.5	26.4	26.8
	6H	25.8	26.5	26.3	27.0	27.5	25.7	26.4	26.2	26.9	27.4
	8H	26.0	26.7	26.5	27.2	27.7	25.9	26.5	26.4	27.0	27.5
	12H	26.1	26.7	26.7	27.2	27.8	26.0	26.6	26.5	27.1	27.6

12H	4H	25.2	26.0	25.7	26.5	26.9	25.1	25.9	25.6	26.3	26.8
	6H	25.9	26.5	26.4	27.0	27.5	25.7	26.4	26.2	26.8	27.4
	8H	26.1	26.7	26.6	27.2	27.7	25.9	26.5	26.4	27.0	27.6

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 2470.924 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.)