



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-P72-850-POE PR\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 19750.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 11-11-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 4' LENSED LED STRIP LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS  
 [MORE] POWER OVER ETHERNET LUMINAIRE  
 [LUMCAT] 75R-4-P72-850-POE PR  
 [LAMPCAT] HLM 80 CRI 5000K 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	7191
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	49
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25140	21257	21219
55	20749	18192	18680
65	17089	15280	15737
75	11547	12556	12894
85	6776	10784	10573

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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>
0	2303.186	2303.186	2303.186	2303.186	2303.186
5	2328.472	2294.391	2295.491	2289.994	2266.907
10	2289.994	2261.410	2266.907	2263.609	2242.721
15	2222.932	2202.044	2217.435	2224.032	2202.044
20	2121.790	2116.293	2142.678	2153.672	2140.479
25	2003.058	2010.753	2048.132	2073.417	2063.523
30	1866.735	1877.729	1941.493	1979.971	1977.772
35	1700.730	1720.519	1812.866	1866.735	1874.431
40	1523.731	1538.023	1654.556	1735.910	1754.599
45	1314.850	1351.129	1485.253	1592.991	1619.376
50	1098.274	1156.540	1320.347	1437.980	1470.961
55	890.492	966.349	1151.044	1274.173	1321.446
60	716.791	787.151	988.336	1111.466	1160.938
65	550.786	627.742	836.623	948.759	991.634
70	385.880	489.221	692.605	790.449	832.225
75	237.465	369.389	559.581	651.928	688.207
80	131.925	255.055	446.345	532.097	555.183
85	56.068	175.900	356.197	429.855	445.246
90	7.696	120.931	275.943	340.806	361.694
95	1.099	82.453	220.974	270.446	292.433
100	0.000	53.869	171.502	220.974	238.564
105	0.000	38.478	133.024	180.297	194.589
110	0.000	26.385	102.242	147.316	159.409
115	0.000	21.987	83.552	123.130	131.925
120	0.000	16.491	63.764	101.142	109.937
125	0.000	9.894	47.273	80.254	90.149
130	0.000	6.596	34.081	62.664	71.459
135	0.000	3.298	25.286	49.472	56.068
140	0.000	3.298	17.590	38.478	43.975
145	0.000	0.000	10.994	24.186	30.782
150	0.000	0.000	7.696	17.590	21.987
155	0.000	0.000	5.497	8.795	14.292
160	0.000	0.000	2.199	6.596	7.696
165	0.000	0.000	0.000	2.199	3.298
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	842.21	N.A.	11.70
0-30	1782.97	N.A.	24.80
0-40	2905.58	N.A.	40.40
0-60	5051.16	N.A.	70.20
0-80	6386.62	N.A.	88.80
0-90	6722.26	N.A.	93.50
10-90	6504.21	N.A.	90.50
20-40	2063.37	N.A.	28.70
20-50	3200.85	N.A.	44.50
40-70	2936.6	N.A.	40.80
60-80	1335.46	N.A.	18.60
70-80	544.43	N.A.	7.60
80-90	335.65	N.A.	4.70
90-110	320.31	N.A.	4.50
90-120	393.74	N.A.	5.50
90-130	435.43	N.A.	6.10
90-150	465.19	N.A.	6.50
90-180	468.31	N.A.	6.50
110-180	148.00	N.A.	2.10
0-180	7190.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	218.05
10-20	624.16
20-30	940.76
30-40	1122.61
40-50	1137.49
50-60	1008.09
60-70	791.02
70-80	544.43
80-90	335.65
90-100	199.84
100-110	120.46
110-120	73.44
120-130	41.68
130-140	21.06
140-150	8.70
150-160	2.72
160-170	0.40
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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**UGR TABLE - CORRECTED**

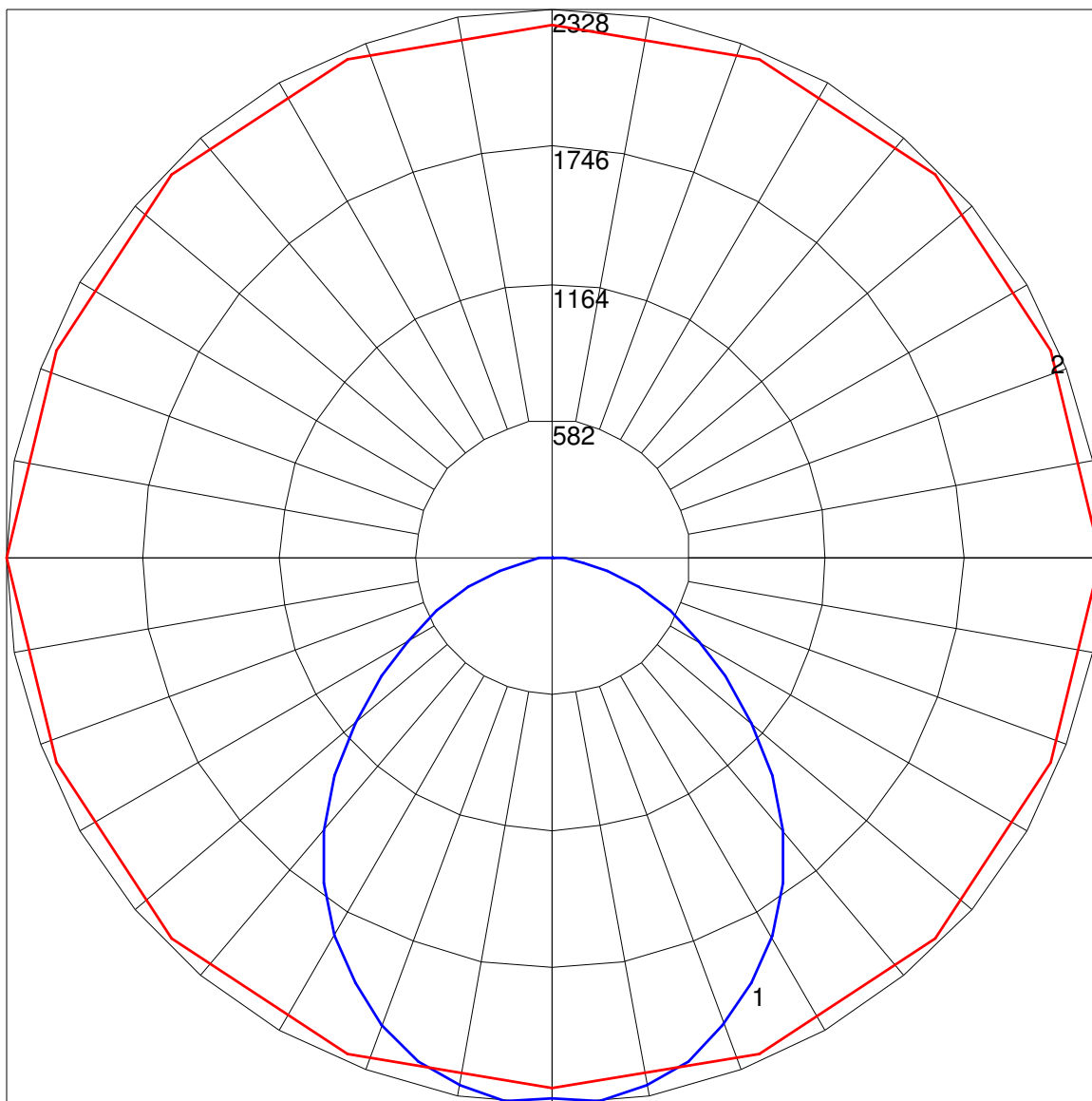
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.7	21.2	20.1	21.6	22.1	23.1	24.6	23.5	25.0	25.5
	3H	20.9	22.2	21.3	22.7	23.2	25.3	26.6	25.7	27.1	27.6
	4H	21.2	22.5	21.7	23.0	23.5	26.3	27.6	26.8	28.1	28.6
	6H	21.4	22.6	21.9	23.1	23.6	27.3	28.5	27.9	29.0	29.6
	8H	21.4	22.5	21.9	23.1	23.6	27.9	29.0	28.4	29.5	30.1
	12H	21.4	22.5	21.9	23.0	23.6	28.4	29.5	29.0	30.0	30.6
4H	2H	20.7	22.0	21.2	22.5	23.0	23.4	24.7	23.9	25.2	25.7
	3H	22.2	23.3	22.7	23.8	24.3	25.8	26.9	26.3	27.4	28.0
	4H	22.6	23.6	23.2	24.2	24.8	27.0	28.0	27.5	28.5	29.1
	6H	22.9	23.8	23.5	24.3	25.0	28.2	29.1	28.8	29.7	30.3
	8H	23.0	23.8	23.5	24.4	25.0	28.8	29.7	29.4	30.2	30.8
	12H	23.0	23.7	23.6	24.3	25.0	29.5	30.3	30.1	30.9	31.5
8H	4H	23.4	24.2	24.0	24.8	25.4	27.2	28.0	27.7	28.5	29.2
	6H	23.9	24.6	24.5	25.2	25.8	28.5	29.2	29.1	29.8	30.4
	8H	24.0	24.6	24.6	25.3	25.9	29.3	29.9	29.9	30.5	31.2
	12H	24.1	24.7	24.7	25.3	26.0	30.1	30.7	30.7	31.3	32.0
12H	4H	23.6	24.3	24.2	24.9	25.6	27.1	27.9	27.7	28.5	29.1
	6H	24.2	24.8	24.8	25.4	26.1	28.6	29.2	29.2	29.8	30.5
	8H	24.4	25.0	25.0	25.6	26.3	29.3	29.9	30.0	30.5	31.2

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 2328.472 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.)