



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-P72-850-(P65)-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] 45 INCH LENSED LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[MORE] POWER OVER ETHERNET LUMINAIRE

[LUMCAT] 75R-4-P72-850-(P65)-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	6907
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	173
Total Luminaire Watts	40
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	24148	20417	20381
55	19929	17473	17943
65	16414	14677	15115
75	11091	12060	12385
85	6508	10358	10156

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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	2212.226	2212.226	2212.226	2212.226	2212.226
5	2236.513	2203.778	2204.834	2199.554	2177.379
10	2199.554	2172.100	2177.379	2174.211	2154.148
15	2135.141	2115.078	2129.861	2136.197	2115.078
20	2037.993	2032.713	2058.056	2068.616	2055.944
25	1923.950	1931.342	1967.244	1991.531	1982.028
30	1793.012	1803.571	1864.817	1901.775	1899.663
35	1633.562	1652.570	1741.270	1793.012	1800.403
40	1463.554	1477.281	1589.212	1667.353	1685.304
45	1262.922	1297.769	1426.595	1530.079	1555.422
50	1054.899	1110.865	1268.202	1381.189	1412.868
55	855.324	928.184	1105.585	1223.852	1269.258
60	688.483	756.064	949.304	1067.571	1115.089
65	529.033	602.950	803.582	911.289	952.471
70	370.640	469.900	665.252	759.232	799.358
75	228.086	354.801	537.481	626.181	661.028
80	126.715	244.982	428.718	511.082	533.257
85	53.854	168.953	342.129	412.878	427.662
90	7.392	116.155	265.045	327.346	347.409
95	1.056	79.197	212.247	259.765	280.884
100	0.000	51.742	164.729	212.247	229.142
105	0.000	36.958	127.771	173.177	186.904
110	0.000	25.343	98.204	141.498	153.113
115	0.000	21.119	80.253	118.267	126.715
120	0.000	15.839	61.245	97.148	105.596
125	0.000	9.504	45.406	77.085	86.588
130	0.000	6.336	32.735	60.189	68.637
135	0.000	3.168	24.287	47.518	53.854
140	0.000	3.168	16.895	36.958	42.238
145	0.000	0.000	10.560	23.231	29.567
150	0.000	0.000	7.392	16.895	21.119
155	0.000	0.000	5.280	8.448	13.727
160	0.000	0.000	2.112	6.336	7.392
165	0.000	0.000	0.000	2.112	3.168
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	808.95	N.A.	11.70
0-30	1712.55	N.A.	24.80
0-40	2790.83	N.A.	40.40
0-60	4851.67	N.A.	70.20
0-80	6134.39	N.A.	88.80
0-90	6456.78	N.A.	93.50
10-90	6247.34	N.A.	90.50
20-40	1981.88	N.A.	28.70
20-50	3074.44	N.A.	44.50
40-70	2820.62	N.A.	40.80
60-80	1282.71	N.A.	18.60
70-80	522.93	N.A.	7.60
80-90	322.39	N.A.	4.70
90-110	307.66	N.A.	4.50
90-120	378.19	N.A.	5.50
90-130	418.23	N.A.	6.10
90-150	446.82	N.A.	6.50
90-180	449.81	N.A.	6.50
110-180	142.15	N.A.	2.10
0-180	6906.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	209.44
10-20	599.51
20-30	903.60
30-40	1078.28
40-50	1092.56
50-60	968.28
60-70	759.78
70-80	522.93
80-90	322.39
90-100	191.95
100-110	115.71
110-120	70.54
120-130	40.04
130-140	20.23
140-150	8.36
150-160	2.61
160-170	0.38
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

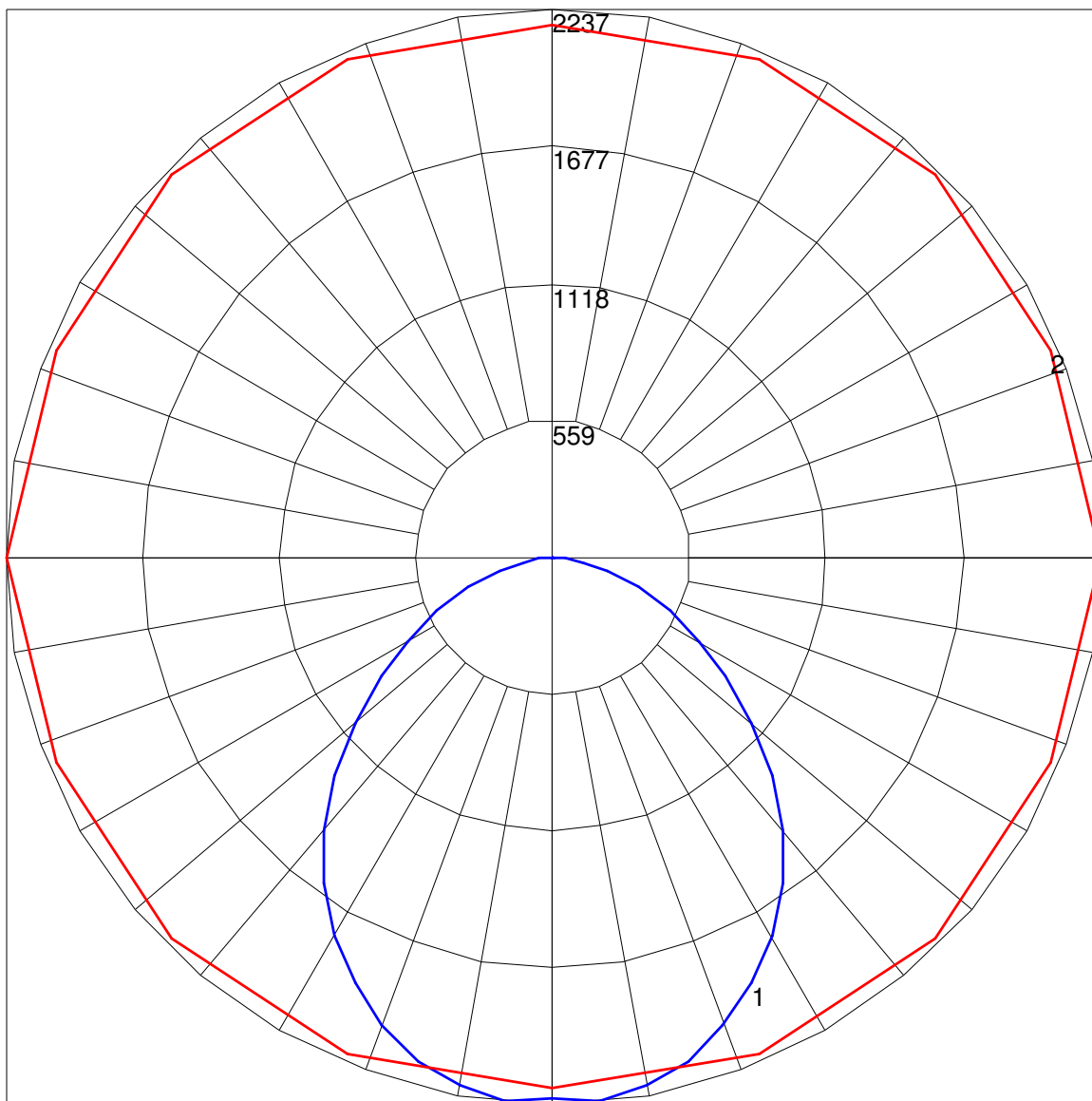
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**UGR TABLE - CORRECTED**

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	19.5	21.0	19.9	21.4	21.9	22.9	24.4	23.3	24.8	25.3
	3H	20.7	22.0	21.1	22.5	23.0	25.1	26.4	25.5	26.9	27.4
	4H	21.0	22.3	21.5	22.8	23.3	26.1	27.4	26.6	27.9	28.4
	6H	21.2	22.4	21.7	22.9	23.4	27.1	28.3	27.7	28.8	29.4
	8H	21.2	22.3	21.7	22.9	23.4	27.7	28.8	28.2	29.3	29.9
	12H	21.2	22.3	21.7	22.8	23.4	28.2	29.3	28.8	29.8	30.4
4H	2H	20.5	21.8	21.0	22.3	22.8	23.2	24.5	23.7	25.0	25.5
	3H	22.0	23.1	22.5	23.6	24.1	25.6	26.7	26.1	27.2	27.8
	4H	22.4	23.4	23.0	24.0	24.6	26.8	27.8	27.3	28.3	28.9
	6H	22.7	23.6	23.3	24.1	24.8	28.0	28.9	28.6	29.5	30.1
	8H	22.8	23.6	23.3	24.2	24.8	28.6	29.5	29.2	30.0	30.6
	12H	22.8	23.5	23.4	24.1	24.8	29.3	30.1	29.9	30.7	31.3
8H	4H	23.2	24.0	23.8	24.6	25.2	27.0	27.8	27.5	28.3	29.0
	6H	23.7	24.4	24.3	25.0	25.6	28.3	29.0	28.9	29.6	30.2
	8H	23.8	24.4	24.4	25.1	25.7	29.1	29.7	29.7	30.3	31.0
	12H	23.9	24.5	24.5	25.1	25.8	29.9	30.5	30.5	31.1	31.8
12H	4H	23.4	24.1	24.0	24.7	25.4	26.9	27.7	27.5	28.3	28.9
	6H	24.0	24.6	24.6	25.2	25.9	28.4	29.0	29.0	29.6	30.3
	8H	24.2	24.8	24.8	25.4	26.1	29.1	29.7	29.8	30.3	31.0

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 2236.513 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.)