



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-8-P73-840-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] 01/05/2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 89 INCH LED STRIP LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS  
 [LUMCAT] 75R-8-P73-840-POE PR  
 [LAMPCAT] HLM 80 CRI 4000K 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	7073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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)	7.44 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	12534	10530	10435
55	10404	9030	9187
65	8649	7604	7739
75	5960	6271	6341
85	3791	5420	5200

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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	2265.393	2265.393	2265.393	2265.393	2265.393
5	2290.263	2256.742	2257.823	2252.417	2229.709
10	2252.417	2224.302	2229.709	2226.465	2205.919
15	2186.455	2165.910	2181.049	2187.537	2165.910
20	2086.973	2081.566	2107.518	2118.331	2105.355
25	1970.189	1977.758	2014.523	2039.394	2029.662
30	1836.104	1846.917	1909.634	1947.481	1945.318
35	1672.822	1692.286	1783.118	1836.104	1843.673
40	1498.728	1512.785	1627.406	1707.425	1725.808
45	1293.274	1328.958	1460.881	1566.852	1592.804
50	1080.252	1137.562	1298.681	1414.384	1446.824
55	875.880	950.492	1132.156	1253.265	1299.762
60	705.029	774.234	972.118	1093.228	1141.888
65	541.748	617.441	822.894	933.190	975.362
70	379.548	481.193	681.240	777.478	818.569
75	233.568	363.328	550.399	641.230	676.914
80	129.760	250.869	439.021	523.365	546.073
85	55.148	173.013	350.352	422.801	437.940
90	7.569	118.947	271.415	335.213	355.759
95	1.081	81.100	217.348	266.008	287.635
100	0.000	52.985	168.688	217.348	234.649
105	0.000	37.847	130.841	177.339	191.396
110	0.000	25.952	100.564	144.899	156.793
115	0.000	21.627	82.181	121.109	129.760
120	0.000	16.220	62.717	99.483	108.133
125	0.000	9.732	46.497	78.937	88.669
130	0.000	6.488	33.521	61.636	70.287
135	0.000	3.244	24.871	48.660	55.148
140	0.000	3.244	17.301	37.847	43.253
145	0.000	0.000	10.813	23.789	30.277
150	0.000	0.000	7.569	17.301	21.627
155	0.000	0.000	5.407	8.651	14.057
160	0.000	0.000	2.163	6.488	7.569
165	0.000	0.000	0.000	2.163	3.244
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	828.39	N.A.	11.70
0-30	1753.71	N.A.	24.80
0-40	2857.9	N.A.	40.40
0-60	4968.28	N.A.	70.20
0-80	6281.82	N.A.	88.80
0-90	6611.96	N.A.	93.50
10-90	6397.48	N.A.	90.50
20-40	2029.51	N.A.	28.70
20-50	3148.33	N.A.	44.50
40-70	2888.41	N.A.	40.80
60-80	1313.54	N.A.	18.60
70-80	535.50	N.A.	7.60
80-90	330.14	N.A.	4.70
90-110	315.05	N.A.	4.50
90-120	387.28	N.A.	5.50
90-130	428.28	N.A.	6.10
90-150	457.56	N.A.	6.50
90-180	460.62	N.A.	6.50
110-180	145.57	N.A.	2.10
0-180	7072.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	214.47
10-20	613.92
20-30	925.32
30-40	1104.19
40-50	1118.82
50-60	991.55
60-70	778.04
70-80	535.50
80-90	330.14
90-100	196.57
100-110	118.49
110-120	72.23
120-130	41.00
130-140	20.72
140-150	8.56
150-160	2.68
160-170	0.39
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

X=2H	Y=2H	17.2	18.7	17.6	19.1	19.6	20.6	22.1	21.1	22.6	23.0
	3H	18.4	19.7	18.8	20.2	20.7	22.8	24.2	23.3	24.7	25.2
	4H	18.7	20.0	19.2	20.5	21.0	23.9	25.2	24.4	25.6	26.2
	6H	18.9	20.1	19.4	20.6	21.1	24.9	26.1	25.5	26.6	27.2
	8H	18.9	20.0	19.4	20.6	21.1	25.5	26.6	26.0	27.1	27.7
	12H	18.9	20.0	19.4	20.5	21.1	26.1	27.2	26.6	27.7	28.3

UGR Viewed Endwise

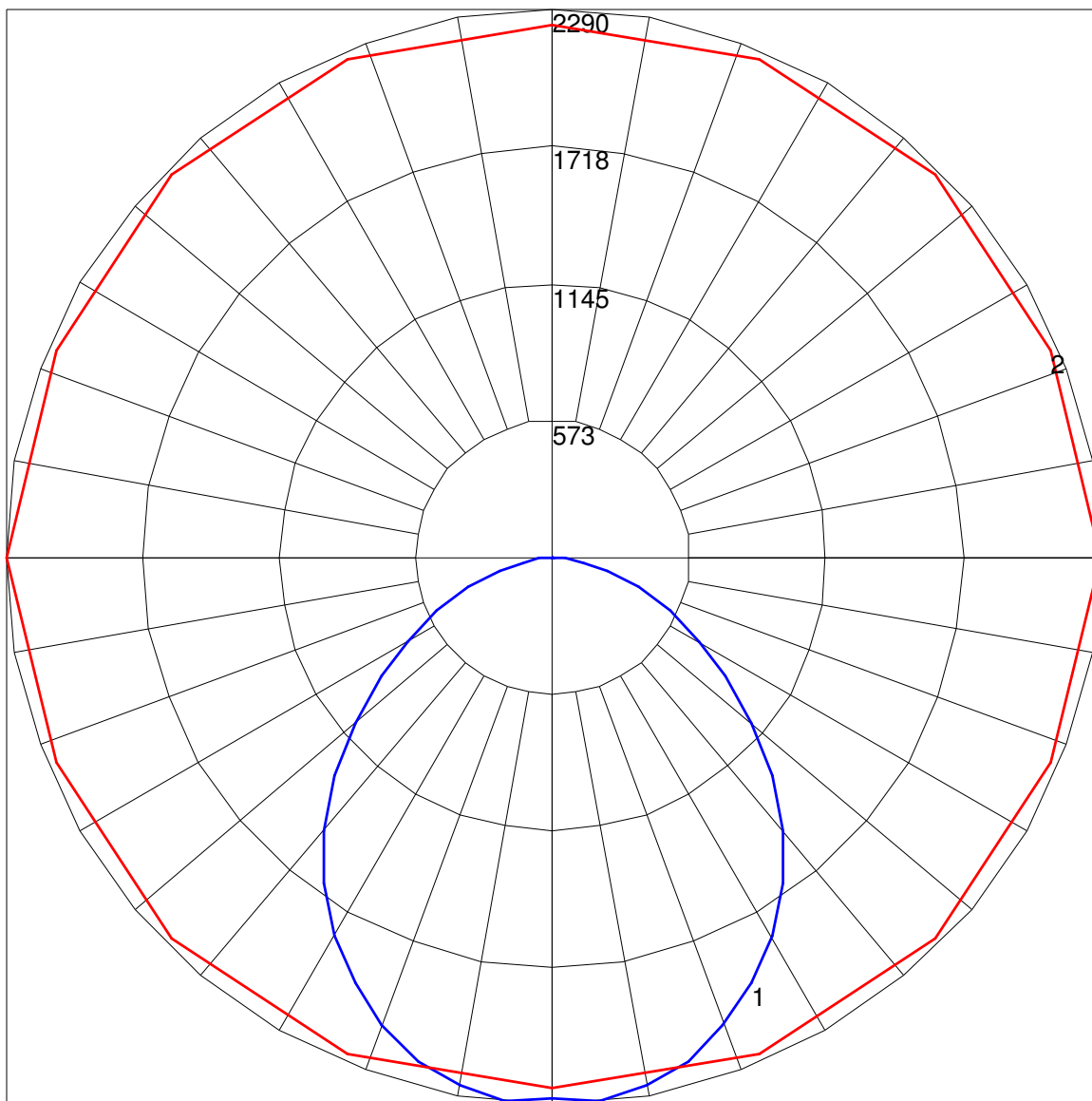
4H	2H	18.2	19.5	18.8	20.0	20.6	20.9	22.2	21.4	22.7	23.2
	3H	19.7	20.8	20.2	21.3	21.9	23.4	24.5	23.9	25.0	25.5
	4H	20.1	21.1	20.7	21.7	22.3	24.6	25.6	25.1	26.1	26.7
	6H	20.4	21.3	21.0	21.9	22.5	25.8	26.7	26.4	27.3	27.9
	8H	20.5	21.3	21.1	21.9	22.5	26.5	27.3	27.0	27.8	28.5
	12H	20.5	21.3	21.1	21.9	22.5	27.2	27.9	27.8	28.5	29.1

8H	4H	20.9	21.7	21.5	22.3	22.9	24.7	25.5	25.3	26.1	26.7
	6H	21.4	22.1	22.0	22.7	23.3	26.1	26.8	26.7	27.4	28.0
	8H	21.5	22.2	22.2	22.8	23.4	26.9	27.5	27.5	28.1	28.8
	12H	21.6	22.2	22.2	22.8	23.5	27.8	28.3	28.4	28.9	29.6

12H	4H	21.1	21.9	21.7	22.5	23.1	24.7	25.5	25.3	26.1	26.7
	6H	21.7	22.3	22.3	22.9	23.6	26.2	26.8	26.8	27.4	28.0
	8H	22.0	22.5	22.6	23.1	23.8	27.0	27.5	27.6	28.1	28.8

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 2290.263 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.)