



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-8-P73-850-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] 89 INCH LENSED LED STRIP LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS
 [MORE] POWER OVER ETHERNET LUMINAIRE
 [LUMCAT] 75R-8-P73-850-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	7279
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	12899	10837	10739
55	10707	9293	9454
65	8901	7826	7965
75	6134	6454	6526
85	3902	5578	5351

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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	2331.372	2331.372	2331.372	2331.372	2331.372
5	2356.967	2322.470	2323.583	2318.019	2294.649
10	2318.019	2289.085	2294.649	2291.311	2270.167
15	2250.136	2228.992	2244.572	2251.249	2228.992
20	2147.756	2142.192	2168.900	2180.028	2166.674
25	2027.571	2035.360	2073.197	2098.792	2088.776
30	1889.580	1900.708	1965.252	2004.201	2001.976
35	1721.543	1741.574	1835.052	1889.580	1897.370
40	1542.378	1556.845	1674.805	1757.154	1776.072
45	1330.941	1367.664	1503.429	1612.486	1639.194
50	1111.714	1170.694	1336.505	1455.578	1488.962
55	901.390	978.175	1165.130	1289.766	1337.618
60	725.563	796.784	1000.431	1125.068	1175.145
65	557.526	635.424	846.861	960.370	1003.770
70	390.602	495.208	701.081	800.123	842.410
75	240.371	373.910	566.429	659.906	696.630
80	133.539	258.176	451.808	538.608	561.978
85	56.754	178.052	360.556	435.115	450.695
90	7.790	122.411	279.320	344.976	366.120
95	1.113	83.462	223.678	273.755	296.012
100	0.000	54.529	173.601	223.678	241.483
105	0.000	38.949	134.652	182.504	196.970
110	0.000	26.708	103.493	149.119	161.360
115	0.000	22.257	84.575	124.637	133.539
120	0.000	16.692	64.544	102.380	111.283
125	0.000	10.015	47.852	81.236	91.252
130	0.000	6.677	34.498	63.431	72.334
135	0.000	3.338	25.595	50.077	56.754
140	0.000	3.338	17.805	38.949	44.513
145	0.000	0.000	11.128	24.482	31.159
150	0.000	0.000	7.790	17.805	22.257
155	0.000	0.000	5.564	8.903	14.467
160	0.000	0.000	2.226	6.677	7.790
165	0.000	0.000	0.000	2.226	3.338
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	852.52	N.A.	11.70
0-30	1804.79	N.A.	24.80
0-40	2941.14	N.A.	40.40
0-60	5112.98	N.A.	70.20
0-80	6464.77	N.A.	88.80
0-90	6804.53	N.A.	93.50
10-90	6583.81	N.A.	90.50
20-40	2088.62	N.A.	28.70
20-50	3240.03	N.A.	44.50
40-70	2972.54	N.A.	40.80
60-80	1351.8	N.A.	18.60
70-80	551.10	N.A.	7.60
80-90	339.76	N.A.	4.70
90-110	324.23	N.A.	4.50
90-120	398.56	N.A.	5.50
90-130	440.76	N.A.	6.10
90-150	470.88	N.A.	6.50
90-180	474.04	N.A.	6.50
110-180	149.81	N.A.	2.10
0-180	7278.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	220.72
10-20	631.80
20-30	952.27
30-40	1136.35
40-50	1151.41
50-60	1020.43
60-70	800.70
70-80	551.10
80-90	339.76
90-100	202.29
100-110	121.94
110-120	74.33
120-130	42.19
130-140	21.32
140-150	8.81
150-160	2.75
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

X=2H	Y=2H	17.3	18.8	17.7	19.2	19.7	20.7	22.2	21.2	22.7	23.1
	3H	18.5	19.8	18.9	20.3	20.8	22.9	24.3	23.4	24.8	25.3
	4H	18.8	20.1	19.3	20.6	21.1	24.0	25.3	24.5	25.7	26.3
	6H	19.0	20.2	19.5	20.7	21.2	25.0	26.2	25.6	26.7	27.3
	8H	19.0	20.1	19.5	20.7	21.2	25.6	26.7	26.1	27.2	27.8
	12H	19.0	20.1	19.5	20.6	21.2	26.2	27.3	26.7	27.8	28.4

UGR Viewed Endwise

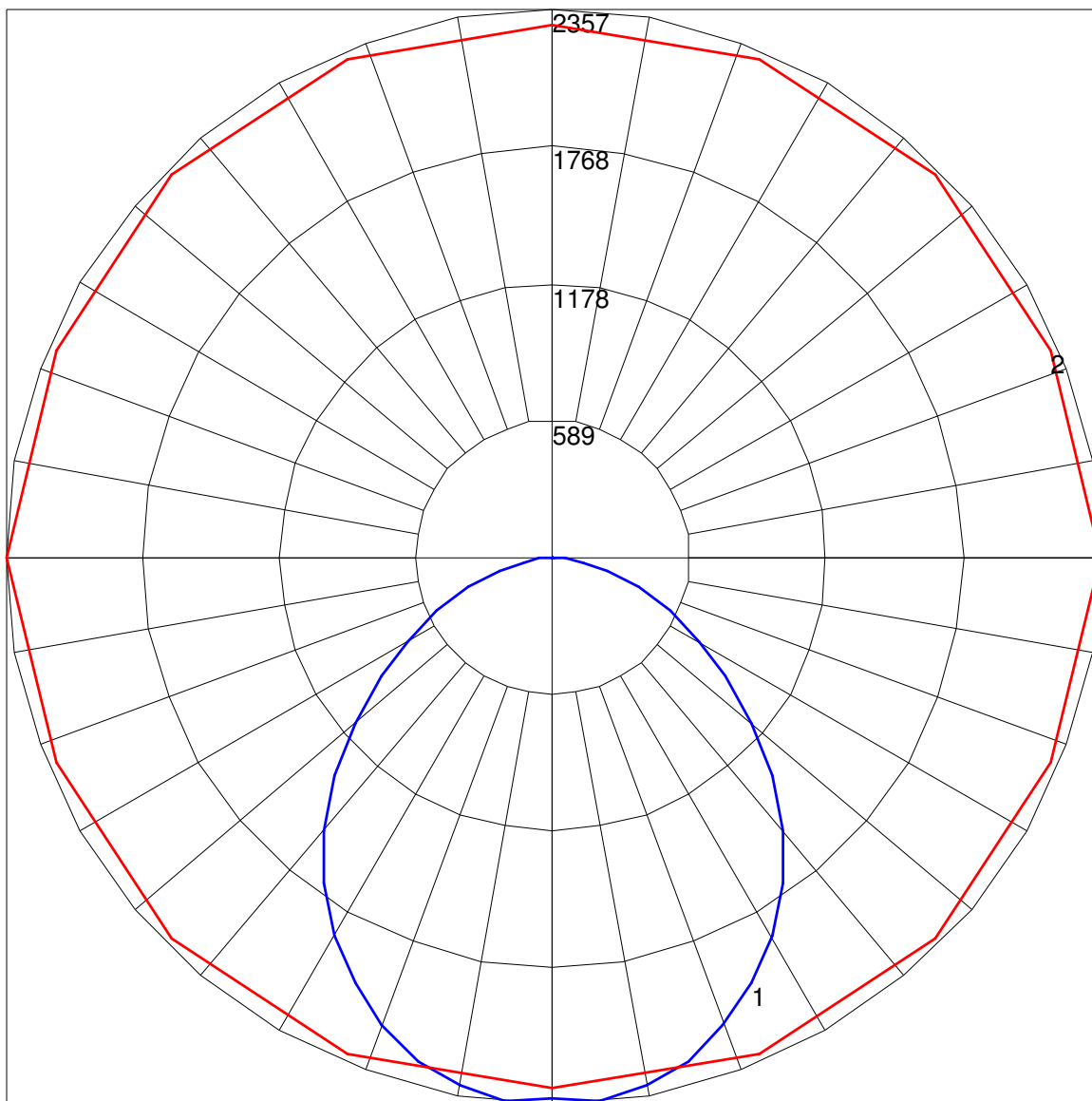
4H	2H	18.3	19.6	18.9	20.1	20.7	21.0	22.3	21.5	22.8	23.3
	3H	19.8	20.9	20.3	21.4	22.0	23.5	24.6	24.0	25.1	25.6
	4H	20.2	21.2	20.8	21.8	22.4	24.7	25.7	25.2	26.2	26.8
	6H	20.5	21.4	21.1	22.0	22.6	25.9	26.8	26.5	27.4	28.0
	8H	20.6	21.4	21.2	22.0	22.6	26.6	27.4	27.1	27.9	28.6
	12H	20.6	21.4	21.2	22.0	22.6	27.3	28.0	27.9	28.6	29.2

8H	4H	21.0	21.8	21.6	22.4	23.0	24.8	25.6	25.4	26.2	26.8
	6H	21.5	22.2	22.1	22.8	23.4	26.2	26.9	26.8	27.5	28.1
	8H	21.6	22.3	22.3	22.9	23.5	27.0	27.6	27.6	28.2	28.9
	12H	21.7	22.3	22.3	22.9	23.6	27.9	28.4	28.5	29.0	29.7

12H	4H	21.2	22.0	21.8	22.6	23.2	24.8	25.6	25.4	26.2	26.8
	6H	21.8	22.4	22.4	23.0	23.7	26.3	26.9	26.9	27.5	28.1
	8H	22.1	22.6	22.7	23.2	23.9	27.1	27.6	27.7	28.2	28.9

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 2356.967 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.)