



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L90-8FS-DIM-UNV_.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] 1-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L90-8FS-DIM-UNV

[_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	8591
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	57.2
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	15226	12791	12677
55	12638	10969	11160
65	10506	9237	9401
75	7240	7618	7703
85	4606	6584	6317

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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	2751.910	2751.910	2751.910	2751.910	2751.910
5	2782.122	2741.402	2742.715	2736.147	2708.563
10	2736.147	2701.995	2708.563	2704.622	2679.664
15	2656.020	2631.063	2649.452	2657.334	2631.063
20	2535.173	2528.605	2560.130	2573.266	2557.503
25	2393.308	2402.503	2447.164	2477.376	2465.554
30	2230.427	2243.562	2319.749	2365.723	2363.096
35	2032.079	2055.723	2166.062	2230.427	2239.621
40	1820.595	1837.672	1976.909	2074.113	2096.443
45	1571.019	1614.366	1774.621	1903.350	1934.875
50	1312.247	1381.866	1577.587	1718.138	1757.545
55	1063.984	1154.620	1375.298	1522.417	1578.900
60	856.442	940.510	1180.891	1328.010	1387.120
65	658.094	750.043	999.620	1133.603	1184.832
70	461.060	584.535	827.543	944.450	994.366
75	283.729	441.356	668.603	778.942	822.289
80	157.627	304.746	533.306	635.764	663.348
85	66.992	210.170	425.594	513.602	531.992
90	9.195	144.492	329.704	407.204	432.162
95	1.314	98.517	264.026	323.136	349.407
100	0.000	64.364	204.916	264.026	285.043
105	0.000	45.975	158.941	215.424	232.500
110	0.000	31.525	122.161	176.017	190.466
115	0.000	26.271	99.831	147.119	157.627
120	0.000	19.703	76.187	120.848	131.356
125	0.000	11.822	56.483	95.890	107.712
130	0.000	7.881	40.720	74.873	85.381
135	0.000	3.941	30.212	59.110	66.992
140	0.000	3.941	21.017	45.975	52.542
145	0.000	0.000	13.136	28.898	36.780
150	0.000	0.000	9.195	21.017	26.271
155	0.000	0.000	6.568	10.508	17.076
160	0.000	0.000	2.627	7.881	9.195
165	0.000	0.000	0.000	2.627	3.941
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	1006.3	N.A.	11.70
0-30	2130.34	N.A.	24.80
0-40	3471.67	N.A.	40.40
0-60	6035.27	N.A.	70.20
0-80	7630.9	N.A.	88.80
0-90	8031.95	N.A.	93.50
10-90	7771.41	N.A.	90.50
20-40	2465.37	N.A.	28.70
20-50	3824.47	N.A.	44.50
40-70	3508.73	N.A.	40.80
60-80	1595.64	N.A.	18.60
70-80	650.51	N.A.	7.60
80-90	401.04	N.A.	4.70
90-110	382.71	N.A.	4.50
90-120	470.46	N.A.	5.50
90-130	520.26	N.A.	6.10
90-150	555.82	N.A.	6.50
90-180	559.55	N.A.	6.50
110-180	176.83	N.A.	2.10
0-180	8591.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.53
10-20	745.77
20-30	1124.04
30-40	1341.33
40-50	1359.1
50-60	1204.5
60-70	945.13
70-80	650.51
80-90	401.04
90-100	238.78
100-110	143.93
110-120	87.74
120-130	49.81
130-140	25.16
140-150	10.40
150-160	3.25
160-170	0.47
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	188	188	188	188	183	183	183	183	172	172	172	163	163	163	154	154	154	150
1	170	161	154	147	164	157	150	144	148	142	137	140	135	131	132	129	125	121
2	154	140	128	119	149	136	126	117	129	120	112	122	114	108	115	109	104	100
3	140	123	109	98	135	119	107	97	113	103	94	107	98	91	102	94	88	84
4	128	109	94	83	124	106	92	82	100	89	80	95	86	78	91	82	76	72
5	118	97	82	72	114	95	81	71	90	78	69	86	75	67	82	73	66	62
6	109	87	73	62	105	85	72	62	81	69	60	78	67	59	74	65	58	54
7	101	79	65	55	98	77	64	55	74	62	53	71	60	52	68	58	51	48
8	94	72	59	49	91	71	58	49	68	56	48	65	54	47	62	53	46	43
9	88	66	53	44	85	65	52	44	62	51	43	60	50	42	58	48	42	38
10	82	61	48	40	80	60	48	40	58	47	39	55	45	38	53	44	38	35

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UGR TABLE - CORRECTED

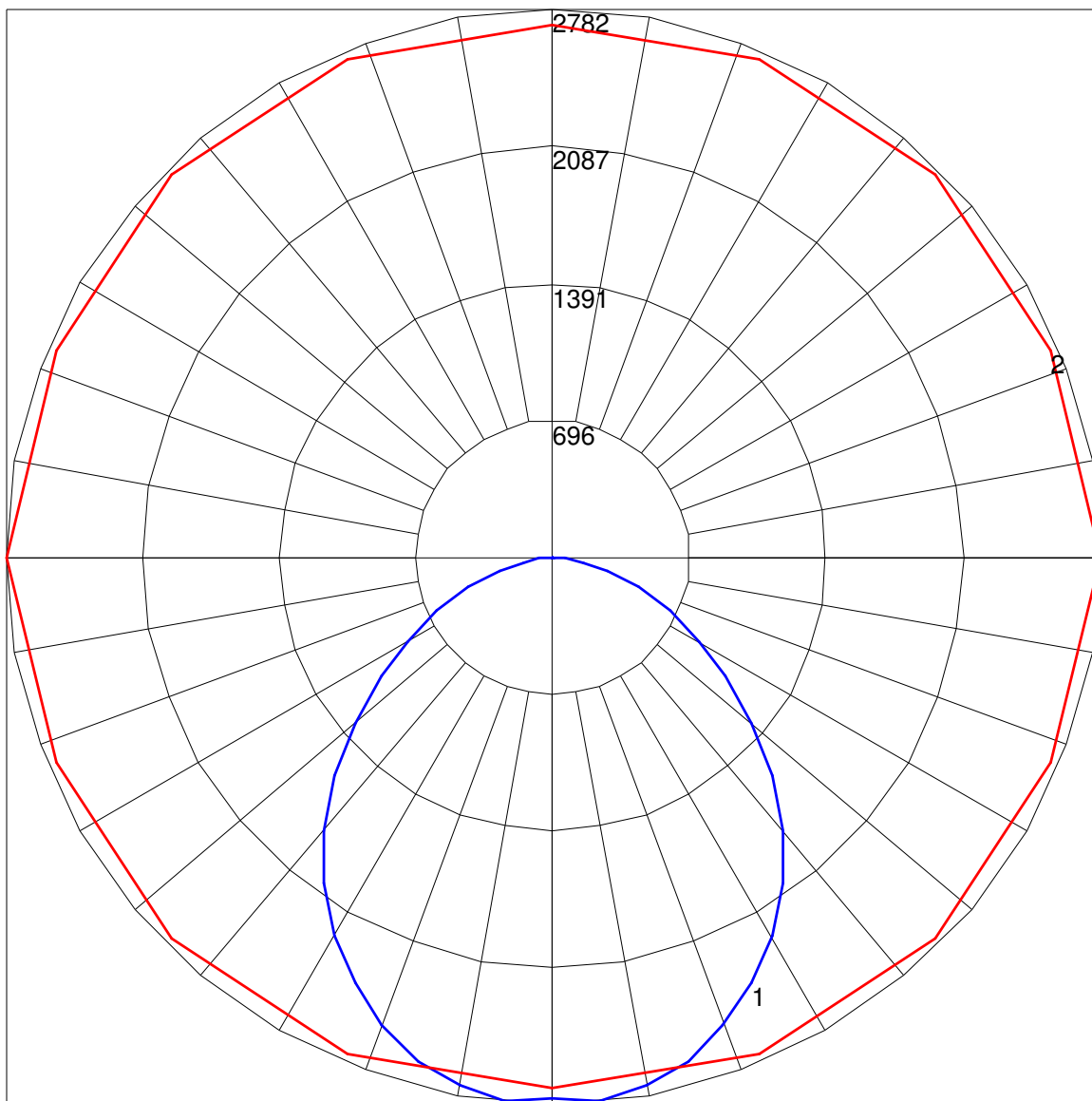
Reflectances

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	17.3	18.8	17.8	19.2	19.7	19.6	21.1	20.1	21.6	22.0
	3H	18.8	20.1	19.3	20.6	21.1	21.8	23.2	22.3	23.7	24.2
	4H	19.3	20.6	19.8	21.0	21.6	22.9	24.2	23.4	24.6	25.2
	6H	19.6	20.8	20.1	21.3	21.8	23.9	25.1	24.5	25.6	26.2
	8H	19.7	20.8	20.2	21.4	21.9	24.5	25.6	25.0	26.1	26.7
	12H	19.8	20.8	20.3	21.4	22.0	25.1	26.2	25.6	26.7	27.3
4H	2H	18.1	19.3	18.6	19.8	20.4	19.9	21.2	20.4	21.7	22.2
	3H	19.8	20.9	20.3	21.4	21.9	22.4	23.5	22.9	24.0	24.5
	4H	20.4	21.4	20.9	21.9	22.5	23.6	24.6	24.1	25.1	25.7
	6H	20.8	21.7	21.4	22.3	22.9	24.8	25.7	25.4	26.3	26.9
	8H	21.0	21.8	21.6	22.4	23.0	25.5	26.3	26.0	26.8	27.5
	12H	21.1	21.8	21.7	22.4	23.1	26.2	26.9	26.8	27.5	28.1
8H	4H	20.9	21.7	21.5	22.3	22.9	23.7	24.5	24.3	25.1	25.7
	6H	21.5	22.2	22.1	22.8	23.5	25.1	25.8	25.7	26.4	27.0
	8H	21.8	22.4	22.4	23.0	23.7	25.9	26.5	26.5	27.1	27.8
	12H	22.0	22.5	22.6	23.1	23.8	26.8	27.3	27.4	27.9	28.6
12H	4H	21.0	21.7	21.6	22.3	23.0	23.7	24.5	24.3	25.1	25.7
	6H	21.7	22.3	22.3	22.9	23.6	25.2	25.8	25.8	26.4	27.0
	8H	22.0	22.6	22.7	23.2	23.9	26.0	26.5	26.6	27.1	27.8

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 2782.122 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.)