

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L60-935-(L20)-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

[ISSUE DATE] 07-06-2023

[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-L60-935-(L20)-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	1696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	13.02
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	3006	2525	2502
55	2495	2165	2203
65	2074	1823	1856
75	1429	1504	1521
85	909	1300	1247

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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	543.208	543.208	543.208	543.208	543.208
5	549.171	541.133	541.392	540.096	534.651
10	540.096	533.355	534.651	533.873	528.947
15	524.280	519.353	522.983	524.539	519.353
20	500.425	499.129	505.352	507.944	504.833
25	472.422	474.237	483.053	489.016	486.683
30	440.270	442.863	457.902	466.977	466.458
35	401.118	405.785	427.565	440.270	442.085
40	359.373	362.743	390.228	409.415	413.823
45	310.108	318.664	350.298	375.708	381.931
50	259.028	272.771	311.404	339.148	346.927
55	210.023	227.914	271.474	300.514	311.664
60	169.056	185.650	233.100	262.140	273.808
65	129.903	148.053	197.318	223.765	233.877
70	91.010	115.383	163.351	186.428	196.281
75	56.006	87.121	131.977	153.758	162.314
80	31.115	60.155	105.271	125.495	130.940
85	13.224	41.486	84.009	101.381	105.011
90	1.815	28.522	65.081	80.379	85.306
95	0.259	19.447	52.117	63.785	68.971
100	0.000	12.705	40.449	52.117	56.265
105	0.000	9.075	31.374	42.523	45.894
110	0.000	6.223	24.114	34.745	37.597
115	0.000	5.186	19.706	29.040	31.115
120	0.000	3.889	15.039	23.854	25.929
125	0.000	2.334	11.149	18.928	21.262
130	0.000	1.556	8.038	14.779	16.854
135	0.000	0.778	5.964	11.668	13.224
140	0.000	0.778	4.149	9.075	10.372
145	0.000	0.000	2.593	5.704	7.260
150	0.000	0.000	1.815	4.149	5.186
155	0.000	0.000	1.296	2.074	3.371
160	0.000	0.000	0.519	1.556	1.815
165	0.000	0.000	0.000	0.519	0.778
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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Zone	Lumens	%Lamp	%Fixt
0-20	198.64	N.A.	11.70
0-30	420.51	N.A.	24.80
0-40	685.28	N.A.	40.40
0-60	1191.32	N.A.	70.20
0-80	1506.29	N.A.	88.80
0-90	1585.45	N.A.	93.50
10-90	1534.02	N.A.	90.50
20-40	486.65	N.A.	28.70
20-50	754.92	N.A.	44.50
40-70	692.60	N.A.	40.80
60-80	314.97	N.A.	18.60
70-80	128.41	N.A.	7.60
80-90	79.16	N.A.	4.70
90-110	75.55	N.A.	4.50
90-120	92.87	N.A.	5.50
90-130	102.70	N.A.	6.10
90-150	109.72	N.A.	6.50
90-180	110.45	N.A.	6.50
110-180	34.91	N.A.	2.10
0-180	1695.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.43
10-20	147.21
20-30	221.88
30-40	264.77
40-50	268.28
50-60	237.76
60-70	186.56
70-80	128.41
80-90	79.16
90-100	47.13
100-110	28.41
110-120	17.32
120-130	9.83
130-140	4.97
140-150	2.05
150-160	0.64
160-170	0.09
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

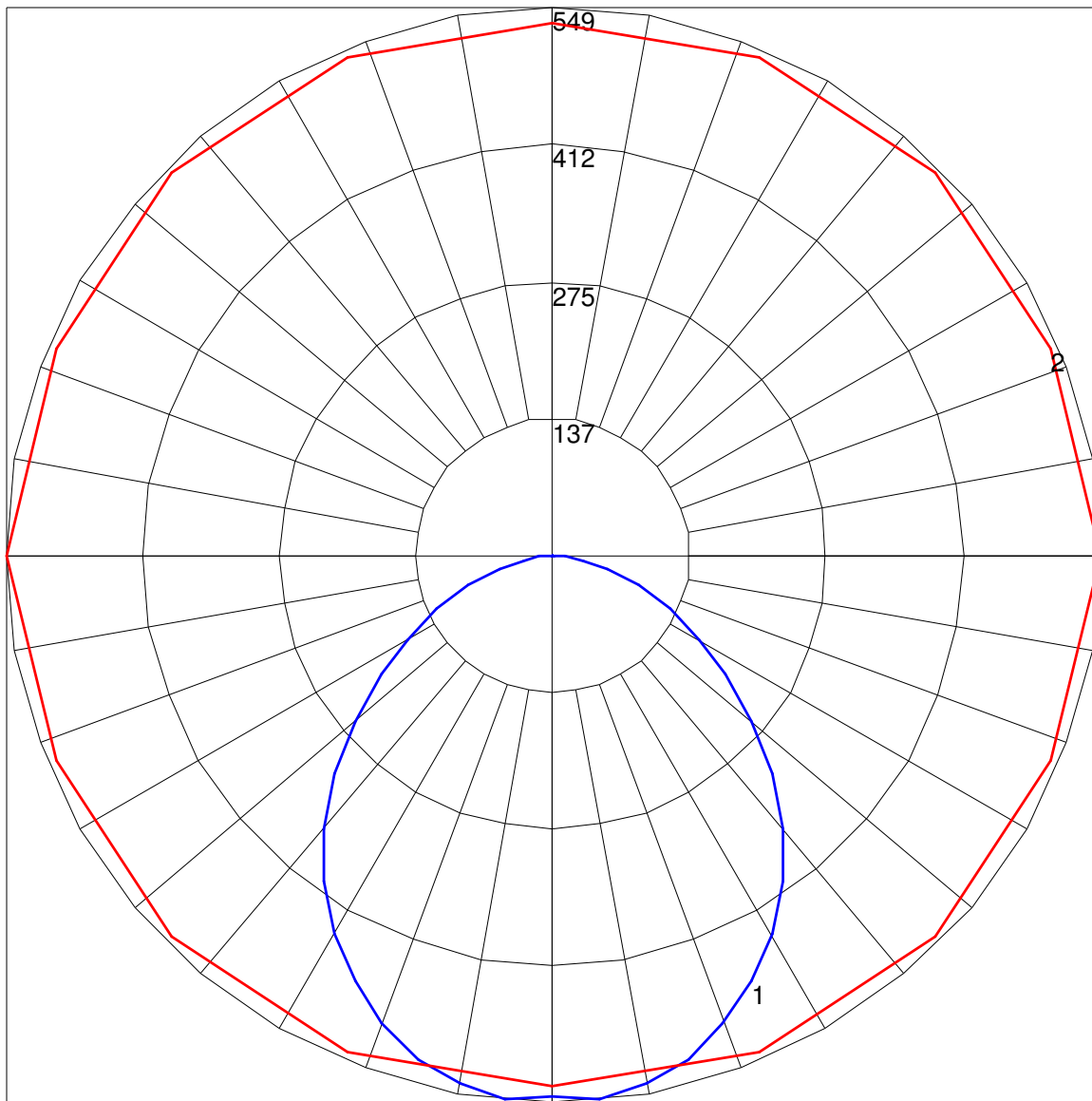
Reflectances

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	12.2	13.7	12.6	14.1	14.6	15.6	17.1	16.1	17.6	18.0
	3H	13.4	14.7	13.8	15.2	15.7	17.8	19.2	18.3	19.6	20.2
	4H	13.7	15.0	14.2	15.5	16.0	18.9	20.2	19.4	20.6	21.2
	6H	13.9	15.1	14.4	15.6	16.1	19.9	21.1	20.4	21.6	22.2
	8H	13.9	15.0	14.4	15.6	16.1	20.5	21.6	21.0	22.1	22.7
	12H	13.9	15.0	14.4	15.5	16.1	21.1	22.2	21.6	22.7	23.3
4H	2H	13.2	14.5	13.8	15.0	15.6	15.9	17.2	16.4	17.7	18.2
	3H	14.7	15.8	15.2	16.3	16.9	18.4	19.5	18.9	20.0	20.5
	4H	15.1	16.1	15.7	16.7	17.3	19.6	20.6	20.1	21.1	21.7
	6H	15.4	16.3	16.0	16.9	17.5	20.8	21.7	21.4	22.3	22.9
	8H	15.5	16.3	16.0	16.9	17.5	21.5	22.3	22.0	22.8	23.5
	12H	15.5	16.3	16.1	16.8	17.5	22.2	22.9	22.8	23.5	24.1
8H	4H	15.9	16.7	16.5	17.3	17.9	19.7	20.5	20.3	21.1	21.7
	6H	16.4	17.1	17.0	17.7	18.3	21.1	21.8	21.7	22.4	23.0
	8H	16.5	17.2	17.1	17.8	18.4	21.9	22.5	22.5	23.1	23.8
	12H	16.6	17.2	17.2	17.8	18.5	22.8	23.3	23.4	23.9	24.6
12H	4H	16.1	16.9	16.7	17.5	18.1	19.7	20.5	20.3	21.1	21.7
	6H	16.7	17.3	17.3	17.9	18.6	21.2	21.8	21.8	22.4	23.0
	8H	16.9	17.5	17.6	18.1	18.8	22.0	22.5	22.6	23.1	23.8

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 549.171 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.)