

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L60-935-(L19)-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] 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-(L19)-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	1595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	12.07
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	2827	2375	2353
55	2346	2036	2072
65	1950	1715	1745
75	1344	1414	1430
85	855	1222	1173

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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	510.858	510.858	510.858	510.858	510.858
5	516.467	508.908	509.152	507.932	502.811
10	507.932	501.592	502.811	502.080	497.447
15	493.058	488.425	491.838	493.301	488.425
20	470.624	469.405	475.257	477.695	474.769
25	444.288	445.995	454.286	459.895	457.700
30	414.051	416.490	430.633	439.168	438.680
35	377.231	381.620	402.103	414.051	415.758
40	337.971	341.141	366.989	385.034	389.179
45	291.640	299.687	329.437	353.334	359.186
50	243.603	256.527	292.860	318.951	326.267
55	197.516	214.341	255.307	282.618	293.104
60	158.988	174.594	219.218	246.529	257.502
65	122.167	139.236	185.567	210.440	219.950
70	85.590	108.512	153.623	175.326	184.592
75	52.671	81.932	124.118	144.601	152.648
80	29.262	56.572	99.002	118.022	123.142
85	12.436	39.015	79.006	95.344	98.758
90	1.707	26.823	61.205	75.592	80.226
95	0.244	18.288	49.013	59.986	64.863
100	0.000	11.948	38.040	49.013	52.915
105	0.000	8.535	29.505	39.991	43.161
110	0.000	5.852	22.678	32.675	35.358
115	0.000	4.877	18.532	27.311	29.262
120	0.000	3.658	14.143	22.434	24.385
125	0.000	2.195	10.485	17.801	19.995
130	0.000	1.463	7.559	13.899	15.850
135	0.000	0.732	5.608	10.973	12.436
140	0.000	0.732	3.902	8.535	9.754
145	0.000	0.000	2.438	5.365	6.828
150	0.000	0.000	1.707	3.902	4.877
155	0.000	0.000	1.219	1.951	3.170
160	0.000	0.000	0.488	1.463	1.707
165	0.000	0.000	0.000	0.488	0.732
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	186.81	N.A.	11.70
0-30	395.47	N.A.	24.80
0-40	644.47	N.A.	40.40
0-60	1120.37	N.A.	70.20
0-80	1416.58	N.A.	88.80
0-90	1491.03	N.A.	93.50
10-90	1442.67	N.A.	90.50
20-40	457.67	N.A.	28.70
20-50	709.97	N.A.	44.50
40-70	651.35	N.A.	40.80
60-80	296.21	N.A.	18.60
70-80	120.76	N.A.	7.60
80-90	74.45	N.A.	4.70
90-110	71.05	N.A.	4.50
90-120	87.33	N.A.	5.50
90-130	96.58	N.A.	6.10
90-150	103.18	N.A.	6.50
90-180	103.87	N.A.	6.50
110-180	32.83	N.A.	2.10
0-180	1594.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.36
10-20	138.44
20-30	208.66
30-40	249.00
40-50	252.30
50-60	223.60
60-70	175.45
70-80	120.76
80-90	74.45
90-100	44.33
100-110	26.72
110-120	16.29
120-130	9.25
130-140	4.67
140-150	1.93
150-160	0.60
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**

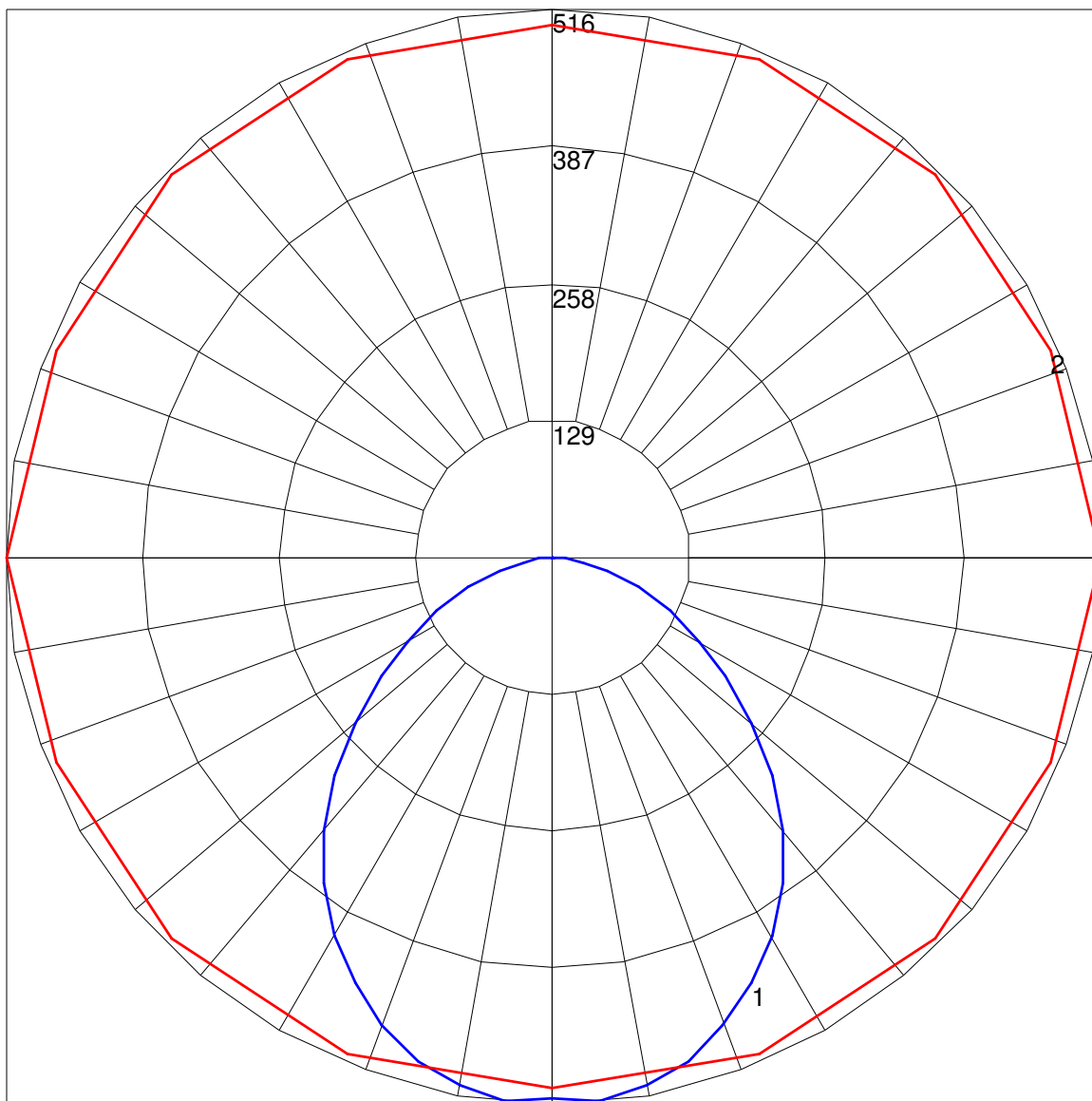
Reflectances

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	12.0	13.5	12.4	13.9	14.4	15.4	16.9	15.9	17.4	17.8
	3H	13.2	14.5	13.6	15.0	15.5	17.6	19.0	18.1	19.4	20.0
	4H	13.5	14.8	14.0	15.3	15.8	18.7	20.0	19.2	20.4	21.0
	6H	13.7	14.9	14.2	15.4	15.9	19.7	20.9	20.2	21.4	22.0
	8H	13.7	14.8	14.2	15.4	15.9	20.3	21.4	20.8	21.9	22.5
	12H	13.7	14.8	14.2	15.3	15.9	20.9	22.0	21.4	22.5	23.1
4H	2H	13.0	14.3	13.6	14.8	15.4	15.7	17.0	16.2	17.5	18.0
	3H	14.5	15.6	15.0	16.1	16.7	18.2	19.3	18.7	19.8	20.3
	4H	14.9	15.9	15.5	16.5	17.1	19.4	20.4	19.9	20.9	21.5
	6H	15.2	16.1	15.8	16.7	17.3	20.6	21.5	21.2	22.1	22.7
	8H	15.3	16.1	15.8	16.7	17.3	21.3	22.1	21.8	22.6	23.3
	12H	15.3	16.1	15.9	16.6	17.3	22.0	22.7	22.6	23.3	23.9
8H	4H	15.7	16.5	16.3	17.1	17.7	19.5	20.3	20.1	20.9	21.5
	6H	16.2	16.9	16.8	17.5	18.1	20.9	21.6	21.5	22.2	22.8
	8H	16.3	17.0	16.9	17.6	18.2	21.7	22.3	22.3	22.9	23.6
	12H	16.4	17.0	17.0	17.6	18.3	22.6	23.1	23.2	23.7	24.4
12H	4H	15.9	16.7	16.5	17.3	17.9	19.5	20.3	20.1	20.9	21.5
	6H	16.5	17.1	17.1	17.7	18.4	21.0	21.6	21.6	22.2	22.8
	8H	16.7	17.3	17.4	17.9	18.6	21.8	22.3	22.4	22.9	23.6

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 516.467 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.)