



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L15-8FS-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] 2' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-2-L15-8FS-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	1491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	10.54
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)	1.88 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	10047	8600	8706
55	8204	7331	7664
65	6643	6128	6456
75	4336	5000	5290
85	2247	4246	4338

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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	477.548	477.548	477.548	477.548	477.548
5	482.791	475.725	475.953	474.813	470.026
10	474.813	468.886	470.026	469.342	465.011
15	460.908	456.577	459.768	461.136	456.577
20	439.937	438.797	444.268	446.548	443.812
25	415.319	416.915	424.665	429.907	427.856
30	387.053	389.333	402.554	410.532	410.076
35	352.634	356.737	375.884	387.053	388.649
40	315.934	318.897	343.060	359.928	363.803
45	272.624	280.146	307.956	330.295	335.765
50	227.719	239.800	273.764	298.154	304.993
55	184.637	200.365	238.660	264.190	273.992
60	148.621	163.210	204.924	230.454	240.712
65	114.201	130.158	173.467	196.718	205.608
70	80.009	101.436	143.606	163.894	172.556
75	49.236	76.590	116.025	135.172	142.695
80	27.354	52.884	92.546	110.326	115.113
85	11.625	36.471	73.855	89.127	92.318
90	1.596	25.074	57.215	70.663	74.994
95	0.228	17.096	45.817	56.075	60.634
100	0.000	11.169	35.560	45.817	49.464
105	0.000	7.978	27.582	37.383	40.347
110	0.000	5.471	21.199	30.545	33.052
115	0.000	4.559	17.324	25.530	27.354
120	0.000	3.419	13.221	20.971	22.795
125	0.000	2.052	9.802	16.640	18.692
130	0.000	1.368	7.066	12.993	14.817
135	0.000	0.684	5.243	10.258	11.625
140	0.000	0.684	3.647	7.978	9.118
145	0.000	0.000	2.279	5.015	6.383
150	0.000	0.000	1.596	3.647	4.559
155	0.000	0.000	1.140	1.824	2.963
160	0.000	0.000	0.456	1.368	1.596
165	0.000	0.000	0.000	0.456	0.684
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	174.63	N.A.	11.70
0-30	369.69	N.A.	24.80
0-40	602.45	N.A.	40.40
0-60	1047.32	N.A.	70.20
0-80	1324.22	N.A.	88.80
0-90	1393.81	N.A.	93.50
10-90	1348.6	N.A.	90.50
20-40	427.82	N.A.	28.70
20-50	663.67	N.A.	44.50
40-70	608.88	N.A.	40.80
60-80	276.90	N.A.	18.60
70-80	112.88	N.A.	7.60
80-90	69.59	N.A.	4.70
90-110	66.41	N.A.	4.50
90-120	81.64	N.A.	5.50
90-130	90.28	N.A.	6.10
90-150	96.45	N.A.	6.50
90-180	97.10	N.A.	6.50
110-180	30.69	N.A.	2.10
0-180	1490.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.21
10-20	129.42
20-30	195.06
30-40	232.77
40-50	235.85
50-60	209.02
60-70	164.01
70-80	112.88
80-90	69.59
90-100	41.44
100-110	24.98
110-120	15.23
120-130	8.64
130-140	4.37
140-150	1.80
150-160	0.56
160-170	0.08
170-180	0.00

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	69	69	69	69	67	67	67	67	63	63	63	60	60	60	56	56	56	55
1	62	59	56	54	60	57	55	53	54	52	50	51	50	48	49	47	46	44
2	57	51	47	44	55	50	46	43	47	44	41	45	42	40	42	40	38	37
3	51	45	40	36	50	44	39	36	42	38	34	39	36	33	37	35	32	31
4	47	40	35	31	45	39	34	30	37	33	29	35	31	28	33	30	28	26
5	43	36	30	26	42	35	30	26	33	29	25	31	28	25	30	27	24	23
6	40	32	27	23	39	31	26	23	30	25	22	28	25	22	27	24	21	20
7	37	29	24	20	36	28	24	20	27	23	20	26	22	19	25	21	19	18
8	35	27	21	18	33	26	21	18	25	21	18	24	20	17	23	19	17	16
9	32	24	19	16	31	24	19	16	23	19	16	22	18	16	21	18	15	14
10	30	22	18	15	29	22	18	15	21	17	14	20	17	14	20	16	14	13

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**UGR TABLE - CORRECTED**

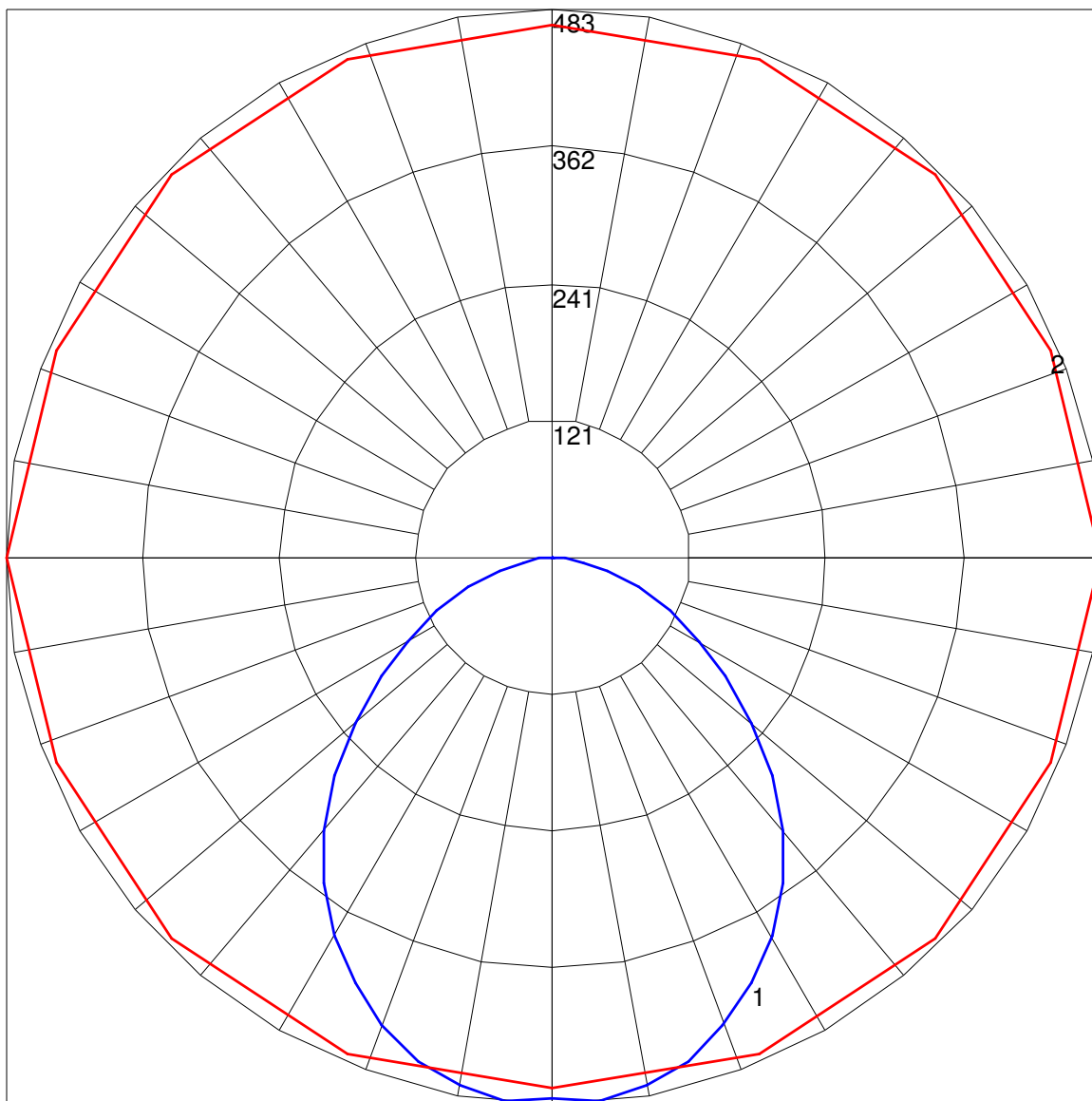
Reflectances

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	17.0	18.5	17.5	19.0	19.5	19.4	20.9	19.8	21.3	21.8
	3H	18.5	19.9	19.0	20.3	20.9	21.6	22.9	22.0	23.4	23.9
	4H	19.0	20.3	19.5	20.8	21.3	22.6	23.9	23.1	24.4	24.9
	6H	19.3	20.5	19.8	21.0	21.6	23.6	24.8	24.2	25.3	25.9
	8H	19.4	20.5	19.9	21.1	21.6	24.2	25.3	24.7	25.8	26.4
	12H	19.5	20.6	20.0	21.1	21.7	24.7	25.8	25.3	26.3	26.9
4H	2H	17.8	19.1	18.3	19.6	20.1	19.7	21.0	20.2	21.5	22.0
	3H	19.5	20.6	20.0	21.1	21.7	22.1	23.2	22.6	23.7	24.3
	4H	20.1	21.1	20.7	21.6	22.2	23.3	24.3	23.8	24.8	25.4
	6H	20.6	21.4	21.1	22.0	22.6	24.5	25.4	25.1	26.0	26.6
	8H	20.7	21.5	21.3	22.1	22.7	25.1	26.0	25.7	26.5	27.1
	12H	20.8	21.5	21.4	22.1	22.8	25.8	26.6	26.4	27.2	27.8
8H	4H	20.6	21.5	21.2	22.0	22.6	23.5	24.3	24.0	24.8	25.5
	6H	21.2	21.9	21.8	22.6	23.2	24.8	25.5	25.4	26.1	26.7
	8H	21.5	22.1	22.1	22.7	23.4	25.6	26.2	26.2	26.8	27.5
	12H	21.7	22.2	22.3	22.8	23.5	26.4	27.0	27.0	27.6	28.3
12H	4H	20.7	21.5	21.3	22.1	22.7	23.4	24.2	24.0	24.8	25.4
	6H	21.5	22.1	22.1	22.7	23.3	24.9	25.5	25.5	26.1	26.8
	8H	21.8	22.3	22.4	22.9	23.6	25.6	26.2	26.3	26.8	27.5

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 482.791 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.)