



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L30-8FS-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-L30-8FS-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	2893
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	20
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	19494	16687	16892
55	15919	14225	14871
65	12890	11890	12527
75	8414	9702	10265
85	4360	8239	8417

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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	926.591	926.591	926.591	926.591	926.591
5	936.764	923.053	923.495	921.284	911.996
10	921.284	909.785	911.996	910.669	902.266
15	894.304	885.901	892.093	894.747	885.901
20	853.614	851.403	862.018	866.440	861.133
25	805.847	808.943	823.981	834.153	830.173
30	751.003	755.426	781.079	796.559	795.674
35	684.218	692.179	729.331	751.003	754.099
40	613.010	618.760	665.642	698.371	705.890
45	528.975	543.571	597.530	640.874	651.489
50	441.845	465.286	531.187	578.512	591.780
55	358.253	388.770	463.075	512.611	531.629
60	288.371	316.678	397.616	447.152	467.055
65	221.586	252.546	336.580	381.694	398.943
70	155.243	196.818	278.641	318.004	334.811
75	95.534	148.608	225.124	262.276	276.872
80	53.074	102.611	179.569	214.067	223.355
85	22.557	70.766	143.301	172.934	179.126
90	3.096	48.652	111.014	137.109	145.512
95	0.442	33.172	88.900	108.803	117.648
100	0.000	21.672	68.997	88.900	95.976
105	0.000	15.480	53.517	72.535	78.285
110	0.000	10.615	41.133	59.266	64.132
115	0.000	8.846	33.614	49.536	53.074
120	0.000	6.634	25.653	40.690	44.229
125	0.000	3.981	19.018	32.287	36.268
130	0.000	2.654	13.711	25.210	28.749
135	0.000	1.327	10.173	19.903	22.557
140	0.000	1.327	7.077	15.480	17.691
145	0.000	0.000	4.423	9.730	12.384
150	0.000	0.000	3.096	7.077	8.846
155	0.000	0.000	2.211	3.538	5.750
160	0.000	0.000	0.885	2.654	3.096
165	0.000	0.000	0.000	0.885	1.327
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	338.83	N.A.	11.70
0-30	717.30	N.A.	24.80
0-40	1168.94	N.A.	40.40
0-60	2032.12	N.A.	70.20
0-80	2569.39	N.A.	88.80
0-90	2704.42	N.A.	93.50
10-90	2616.7	N.A.	90.50
20-40	830.11	N.A.	28.70
20-50	1287.73	N.A.	44.50
40-70	1181.42	N.A.	40.80
60-80	537.27	N.A.	18.60
70-80	219.03	N.A.	7.60
80-90	135.03	N.A.	4.70
90-110	128.86	N.A.	4.50
90-120	158.41	N.A.	5.50
90-130	175.18	N.A.	6.10
90-150	187.15	N.A.	6.50
90-180	188.40	N.A.	6.50
110-180	59.54	N.A.	2.10
0-180	2892.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.72
10-20	251.11
20-30	378.47
30-40	451.64
40-50	457.62
50-60	405.56
60-70	318.23
70-80	219.03
80-90	135.03
90-100	80.40
100-110	48.46
110-120	29.54
120-130	16.77
130-140	8.47
140-150	3.50
150-160	1.09
160-170	0.16
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	228	228	228	228	221	221	221	221	209	209	209	197	197	197	186	186	186	181
1	206	196	186	178	199	190	182	174	179	172	166	169	164	159	160	156	152	147
2	187	170	156	144	180	165	152	141	156	145	136	148	139	131	140	133	126	121
3	170	149	132	119	164	145	130	117	137	124	114	130	119	110	123	114	107	102
4	155	132	114	101	150	128	112	100	122	108	97	116	104	94	110	100	91	87
5	143	118	100	87	138	115	98	86	109	95	84	104	91	82	99	88	80	75
6	132	106	88	76	127	103	87	75	99	84	73	94	81	72	90	79	70	66
7	122	96	79	67	118	94	78	66	90	75	65	86	73	63	82	71	62	58
8	114	88	71	60	110	86	70	59	82	68	58	79	66	57	75	64	56	52
9	106	80	64	54	103	79	63	53	76	62	52	73	60	51	70	59	50	47
10	100	74	59	49	97	73	58	48	70	57	47	67	55	47	65	54	46	42

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**UGR TABLE - CORRECTED**

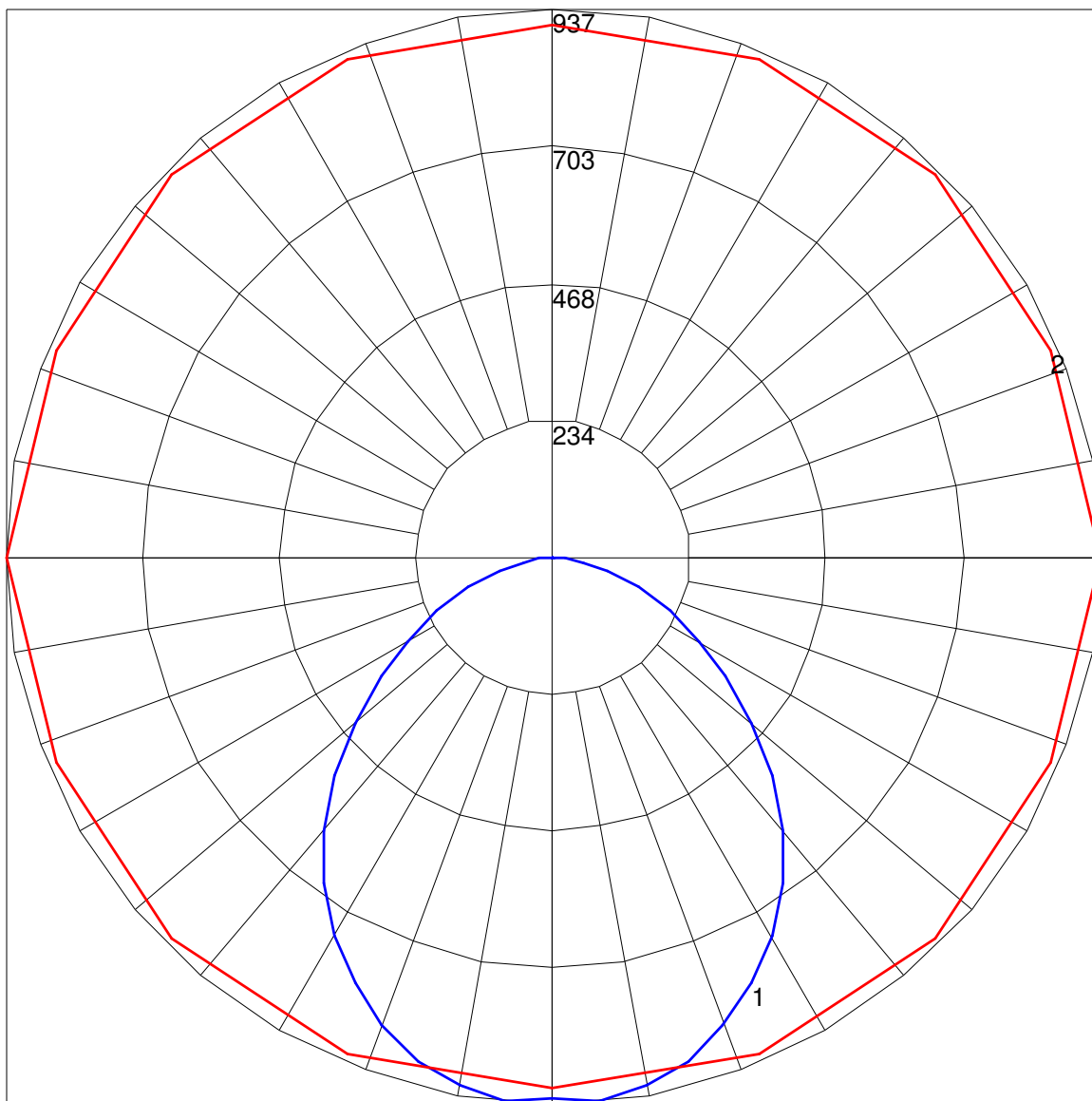
Reflectances

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	17.5	19.0	18.0	19.5	19.9	19.8	21.3	20.3	21.8	22.3
	3H	18.9	20.3	19.4	20.8	21.3	22.0	23.3	22.5	23.8	24.3
	4H	19.4	20.7	19.9	21.2	21.7	23.0	24.3	23.5	24.8	25.3
	6H	19.7	20.9	20.2	21.4	22.0	24.0	25.2	24.5	25.7	26.2
	8H	19.8	20.9	20.3	21.5	22.0	24.5	25.6	25.0	26.1	26.7
	12H	19.8	20.9	20.4	21.5	22.0	25.0	26.1	25.6	26.6	27.2
4H	2H	18.3	19.6	18.8	20.0	20.6	20.1	21.4	20.7	21.9	22.5
	3H	19.9	21.0	20.5	21.6	22.1	22.5	23.6	23.0	24.2	24.7
	4H	20.5	21.5	21.1	22.1	22.7	23.7	24.7	24.2	25.2	25.8
	6H	21.0	21.8	21.5	22.4	23.0	24.9	25.8	25.4	26.3	26.9
	8H	21.1	21.9	21.7	22.5	23.1	25.5	26.3	26.0	26.9	27.5
	12H	21.2	21.9	21.8	22.5	23.2	26.1	26.9	26.7	27.4	28.1
8H	4H	21.1	21.9	21.6	22.5	23.1	23.9	24.7	24.4	25.2	25.9
	6H	21.7	22.4	22.3	23.0	23.6	25.2	25.9	25.8	26.5	27.1
	8H	21.9	22.5	22.5	23.1	23.8	25.9	26.5	26.5	27.2	27.8
	12H	22.1	22.6	22.7	23.2	23.9	26.7	27.3	27.3	27.9	28.6
12H	4H	21.2	21.9	21.8	22.5	23.1	23.9	24.6	24.4	25.2	25.8
	6H	21.9	22.5	22.5	23.1	23.8	25.2	25.9	25.9	26.4	27.1
	8H	22.2	22.7	22.8	23.3	24.0	26.0	26.6	26.6	27.2	27.9

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 936.764 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.)