



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L20-8FS-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-L20-8FS-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	1951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	13.9
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	13147	11253	11392
55	10736	9593	10029
65	8693	8018	8448
75	5674	6543	6922
85	2941	5556	5676

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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	624.881	624.881	624.881	624.881	624.881
5	631.741	622.495	622.793	621.301	615.038
10	621.301	613.546	615.038	614.143	608.476
15	603.107	597.440	601.615	603.405	597.440
20	575.666	574.174	581.333	584.316	580.736
25	543.452	545.540	555.681	562.542	559.857
30	506.467	509.449	526.749	537.189	536.592
35	461.427	466.796	491.851	506.467	508.554
40	413.406	417.283	448.900	470.972	476.043
45	356.734	366.577	402.966	432.197	439.355
50	297.974	313.783	358.225	390.140	399.088
55	241.601	262.181	312.291	345.698	358.523
60	194.474	213.563	268.147	301.553	314.976
65	149.434	170.314	226.985	257.409	269.042
70	104.694	132.731	187.912	214.458	225.792
75	64.427	100.220	151.821	176.876	186.719
80	35.793	69.199	121.099	144.364	150.628
85	15.212	47.724	96.640	116.625	120.800
90	2.088	32.810	74.866	92.464	98.132
95	0.298	22.370	59.953	73.375	79.340
100	0.000	14.615	46.530	59.953	64.725
105	0.000	10.440	36.091	48.917	52.794
110	0.000	7.159	27.739	39.969	43.249
115	0.000	5.965	22.669	33.407	35.793
120	0.000	4.474	17.300	27.441	29.827
125	0.000	2.684	12.826	21.774	24.458
130	0.000	1.790	9.246	17.002	19.388
135	0.000	0.895	6.860	13.422	15.212
140	0.000	0.895	4.772	10.440	11.931
145	0.000	0.000	2.983	6.562	8.352
150	0.000	0.000	2.088	4.772	5.965
155	0.000	0.000	1.491	2.386	3.878
160	0.000	0.000	0.597	1.790	2.088
165	0.000	0.000	0.000	0.597	0.895
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	228.50	N.A.	11.70
0-30	483.74	N.A.	24.80
0-40	788.32	N.A.	40.40
0-60	1370.44	N.A.	70.20
0-80	1732.76	N.A.	88.80
0-90	1823.83	N.A.	93.50
10-90	1764.67	N.A.	90.50
20-40	559.82	N.A.	28.70
20-50	868.43	N.A.	44.50
40-70	796.73	N.A.	40.80
60-80	362.32	N.A.	18.60
70-80	147.71	N.A.	7.60
80-90	91.07	N.A.	4.70
90-110	86.90	N.A.	4.50
90-120	106.83	N.A.	5.50
90-130	118.14	N.A.	6.10
90-150	126.21	N.A.	6.50
90-180	127.06	N.A.	6.50
110-180	40.15	N.A.	2.10
0-180	1950.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	59.16
10-20	169.34
20-30	255.24
30-40	304.58
40-50	308.61
50-60	273.51
60-70	214.61
70-80	147.71
80-90	91.07
90-100	54.22
100-110	32.68
110-120	19.92
120-130	11.31
130-140	5.71
140-150	2.36
150-160	0.74
160-170	0.11
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	154	154	154	154	149	149	149	149	141	141	141	133	133	133	126	126	126	122
1	139	132	126	120	134	128	122	117	121	116	112	114	111	107	108	105	102	99
2	126	114	105	97	121	111	103	95	105	98	92	100	94	88	94	89	85	82
3	115	100	89	80	111	98	87	79	92	84	77	88	80	74	83	77	72	69
4	105	89	77	68	101	86	76	67	82	73	65	78	70	63	74	67	62	59
5	96	79	67	59	93	77	66	58	74	64	56	70	62	55	67	60	54	51
6	89	71	60	51	86	70	59	51	66	57	49	63	55	48	61	53	47	44
7	83	65	53	45	80	63	52	45	60	51	44	58	49	43	55	48	42	39
8	77	59	48	40	74	58	47	40	55	46	39	53	45	38	51	43	38	35
9	72	54	43	36	69	53	43	36	51	42	35	49	41	35	47	39	34	31
10	67	50	40	33	65	49	39	32	47	38	32	45	37	31	44	36	31	28

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**UGR TABLE - CORRECTED**

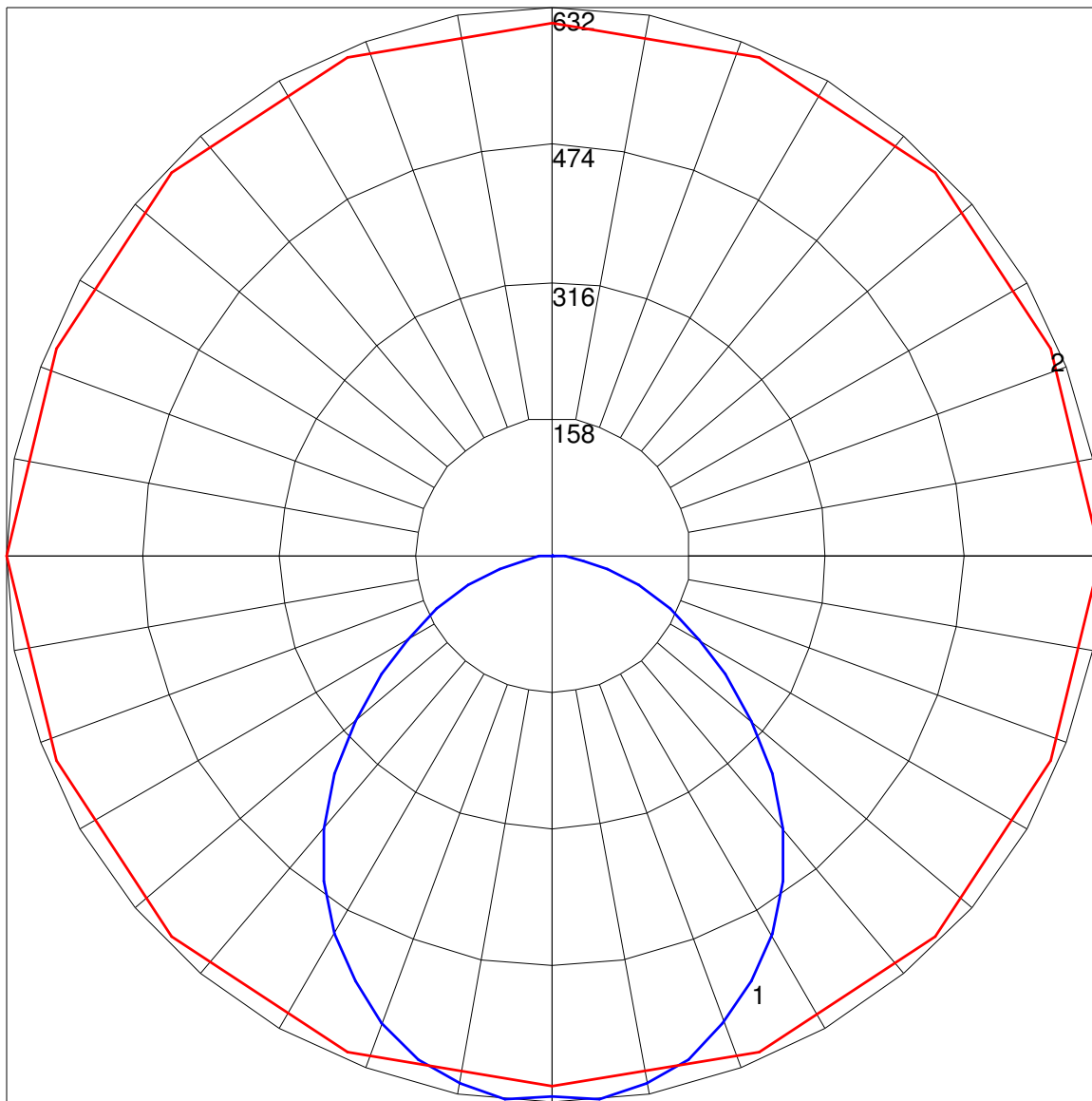
Reflectances

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 = 631.741 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.)