



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L106-8TW-DIM-UNV 4000K_.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] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L106-8TW-DIM-UNV 4000k

[_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	10719
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	68.33
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	18997	15959	15816
55	15768	13686	13924
65	13108	11525	11730
75	9033	9505	9611
85	5746	8214	7881

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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	3433.481	3433.481	3433.481	3433.481	3433.481
5	3471.175	3420.370	3422.009	3413.814	3379.397
10	3413.814	3371.203	3379.397	3374.481	3343.342
15	3313.842	3282.703	3305.647	3315.481	3282.703
20	3163.064	3154.869	3194.202	3210.591	3190.925
25	2986.063	2997.535	3053.258	3090.952	3076.202
30	2782.840	2799.229	2894.285	2951.646	2948.369
35	2535.367	2564.868	2702.535	2782.840	2794.313
40	2271.506	2292.811	2466.534	2587.812	2615.673
45	1960.116	2014.200	2214.144	2374.756	2414.089
50	1637.254	1724.115	1968.311	2143.672	2192.839
55	1327.503	1440.587	1715.921	1899.477	1969.949
60	1068.558	1173.447	1473.365	1656.921	1730.671
65	821.085	935.808	1247.198	1414.365	1478.281
70	575.251	729.307	1032.503	1178.364	1240.642
75	354.001	550.668	834.197	971.864	1025.947
80	196.667	380.223	665.391	793.224	827.641
85	83.584	262.223	531.001	640.807	663.752
90	11.472	180.278	411.362	508.057	539.196
95	1.639	122.917	329.417	403.168	435.946
100	0.000	80.306	255.667	329.417	355.640
105	0.000	57.361	198.306	268.778	290.084
110	0.000	39.333	152.417	219.612	237.639
115	0.000	32.778	124.556	183.556	196.667
120	0.000	24.583	95.056	150.778	163.889
125	0.000	14.750	70.472	119.639	134.389
130	0.000	9.833	50.806	93.417	106.528
135	0.000	4.917	37.695	73.750	83.584
140	0.000	4.917	26.222	57.361	65.556
145	0.000	0.000	16.389	36.056	45.889
150	0.000	0.000	11.472	26.222	32.778
155	0.000	0.000	8.194	13.111	21.306
160	0.000	0.000	3.278	9.833	11.472
165	0.000	0.000	0.000	3.278	4.917
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	1255.53	N.A.	11.70
0-30	2657.97	N.A.	24.80
0-40	4331.5	N.A.	40.40
0-60	7530.03	N.A.	70.20
0-80	9520.87	N.A.	88.80
0-90	10021.23	N.A.	93.50
10-90	9696.17	N.A.	90.50
20-40	3075.97	N.A.	28.70
20-50	4771.68	N.A.	44.50
40-70	4377.74	N.A.	40.80
60-80	1990.83	N.A.	18.60
70-80	811.62	N.A.	7.60
80-90	500.37	N.A.	4.70
90-110	477.50	N.A.	4.50
90-120	586.98	N.A.	5.50
90-130	649.12	N.A.	6.10
90-150	693.48	N.A.	6.50
90-180	698.13	N.A.	6.50
110-180	220.63	N.A.	2.10
0-180	10719.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	325.06
10-20	930.47
20-30	1402.43
30-40	1673.54
40-50	1695.71
50-60	1502.82
60-70	1179.22
70-80	811.62
80-90	500.37
90-100	297.92
100-110	179.58
110-120	109.47
120-130	62.14
130-140	31.40
140-150	12.97
150-160	4.05
160-170	0.59
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	155	155	155	155	150	150	150	150	142	142	142	134	134	134	127	127	127	123
1	140	133	127	121	135	129	123	118	122	117	113	115	111	108	109	106	103	100
2	127	115	106	98	122	112	103	96	106	99	92	100	94	89	95	90	86	82
3	115	101	90	81	111	98	88	80	93	84	77	88	81	75	84	78	72	69
4	106	89	78	69	102	87	76	68	83	73	66	79	70	64	75	68	62	59
5	97	80	68	59	94	78	67	58	74	64	57	71	62	55	67	60	54	51
6	90	72	60	51	87	70	59	51	67	57	50	64	55	49	61	53	47	45
7	83	65	54	45	80	64	53	45	61	51	44	58	50	43	56	48	42	39
8	77	59	48	40	75	58	47	40	56	46	39	53	45	39	51	44	38	35
9	72	55	44	36	70	53	43	36	51	42	35	49	41	35	47	40	34	32
10	68	50	40	33	66	49	39	33	47	38	32	46	37	32	44	36	31	29

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UGR TABLE - CORRECTED

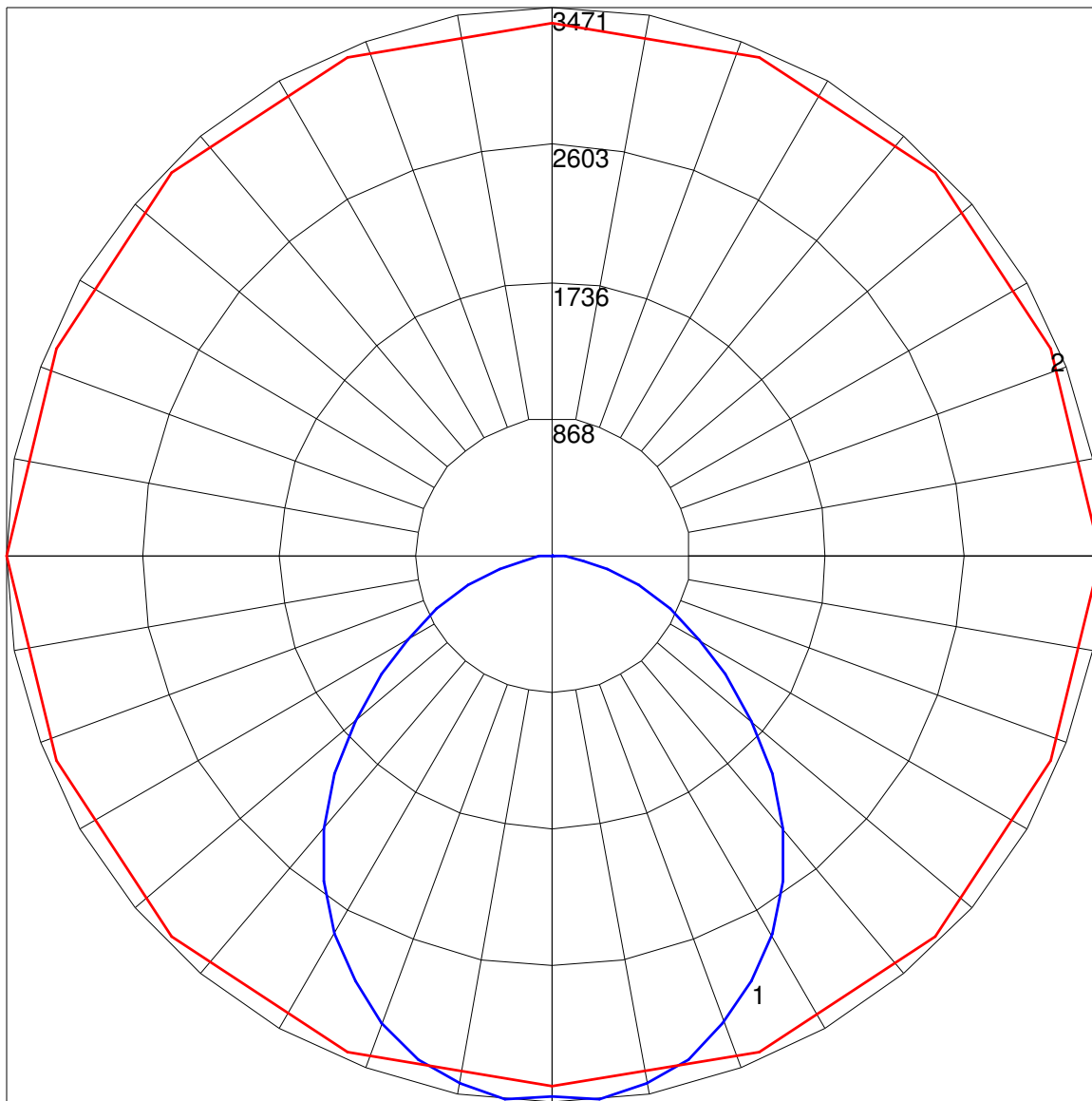
Reflectances

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	18.8	20.3	19.3	20.7	21.2	21.1	22.6	21.6	23.1	23.5
	3H	20.3	21.6	20.8	22.1	22.6	23.3	24.7	23.8	25.2	25.7
	4H	20.8	22.1	21.3	22.5	23.1	24.4	25.7	24.9	26.1	26.7
	6H	21.1	22.3	21.6	22.8	23.3	25.4	26.6	26.0	27.1	27.7
	8H	21.2	22.3	21.7	22.9	23.4	26.0	27.1	26.5	27.6	28.2
	12H	21.3	22.3	21.8	22.9	23.5	26.6	27.7	27.1	28.2	28.8
4H	2H	19.6	20.8	20.1	21.3	21.9	21.4	22.7	21.9	23.2	23.7
	3H	21.3	22.4	21.8	22.9	23.4	23.9	25.0	24.4	25.5	26.0
	4H	21.9	22.9	22.4	23.4	24.0	25.1	26.1	25.6	26.6	27.2
	6H	22.3	23.2	22.9	23.8	24.4	26.3	27.2	26.9	27.8	28.4
	8H	22.5	23.3	23.1	23.9	24.5	27.0	27.8	27.5	28.3	29.0
	12H	22.6	23.3	23.2	23.9	24.6	27.7	28.4	28.3	29.0	29.6
8H	4H	22.4	23.2	23.0	23.8	24.4	25.2	26.0	25.8	26.6	27.2
	6H	23.0	23.7	23.6	24.3	25.0	26.6	27.3	27.2	27.9	28.5
	8H	23.3	23.9	23.9	24.5	25.2	27.4	28.0	28.0	28.6	29.3
	12H	23.5	24.0	24.1	24.6	25.3	28.3	28.8	28.9	29.4	30.1
12H	4H	22.5	23.2	23.1	23.8	24.5	25.2	26.0	25.8	26.6	27.2
	6H	23.2	23.8	23.8	24.4	25.1	26.7	27.3	27.3	27.9	28.5
	8H	23.5	24.1	24.2	24.7	25.4	27.5	28.0	28.1	28.6	29.3

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 3471.175 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.)