



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L150-8TW-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-L150-8TW-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	15034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	99.96
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	26644	22383	22183
55	22115	19194	19529
65	18384	16164	16451
75	12669	13331	13480
85	8059	11521	11053

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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	4815.521	4815.521	4815.521	4815.521	4815.521
5	4868.388	4797.132	4799.431	4787.938	4739.668
10	4787.938	4728.175	4739.668	4732.772	4689.099
15	4647.725	4604.052	4636.232	4650.023	4604.052
20	4436.256	4424.763	4479.929	4502.914	4475.331
25	4188.009	4204.099	4282.251	4335.118	4314.431
30	3902.985	3925.971	4059.289	4139.739	4135.142
35	3555.900	3597.275	3790.355	3902.985	3919.076
40	3185.829	3215.711	3459.360	3629.455	3668.531
45	2749.099	2824.952	3105.379	3330.640	3385.805
50	2296.279	2418.104	2760.592	3006.540	3075.497
55	1861.848	2020.450	2406.611	2664.052	2762.891
60	1498.673	1645.782	2066.422	2323.862	2427.298
65	1151.588	1312.488	1749.218	1983.673	2073.317
70	806.801	1022.867	1448.104	1652.678	1740.024
75	496.493	772.322	1169.976	1363.057	1438.910
80	275.829	533.270	933.223	1112.512	1160.782
85	117.227	367.772	744.739	898.744	930.924
90	16.090	252.844	576.943	712.559	756.232
95	2.299	172.393	462.014	565.450	611.422
100	0.000	112.630	358.578	462.014	498.791
105	0.000	80.450	278.128	376.967	406.848
110	0.000	55.166	213.768	308.009	333.294
115	0.000	45.972	174.692	257.441	275.829
120	0.000	34.479	133.318	211.469	229.858
125	0.000	20.687	98.839	167.796	188.483
130	0.000	13.791	71.256	131.019	149.408
135	0.000	6.896	52.867	103.436	117.227
140	0.000	6.896	36.777	80.450	91.943
145	0.000	0.000	22.986	50.569	64.360
150	0.000	0.000	16.090	36.777	45.972
155	0.000	0.000	11.493	18.389	29.882
160	0.000	0.000	4.597	13.791	16.090
165	0.000	0.000	0.000	4.597	6.896
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	1760.91	N.A.	11.70
0-30	3727.85	N.A.	24.80
0-40	6075.02	N.A.	40.40
0-60	10561.01	N.A.	70.20
0-80	13353.19	N.A.	88.80
0-90	14054.97	N.A.	93.50
10-90	13599.06	N.A.	90.50
20-40	4314.11	N.A.	28.70
20-50	6692.37	N.A.	44.50
40-70	6139.87	N.A.	40.80
60-80	2792.18	N.A.	18.60
70-80	1138.31	N.A.	7.60
80-90	701.78	N.A.	4.70
90-110	669.70	N.A.	4.50
90-120	823.24	N.A.	5.50
90-130	910.40	N.A.	6.10
90-150	972.62	N.A.	6.50
90-180	979.14	N.A.	6.50
110-180	309.43	N.A.	2.10
0-180	15034.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	455.90
10-20	1305.00
20-30	1966.94
30-40	2347.17
40-50	2378.26
50-60	2107.73
60-70	1653.87
70-80	1138.31
80-90	701.78
90-100	417.84
100-110	251.87
110-120	153.54
120-130	87.15
130-140	44.03
140-150	18.19
150-160	5.69
160-170	0.83
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	217	217	217	217	211	211	211	211	199	199	199	188	188	188	177	177	177	173
1	196	186	177	170	190	181	173	166	171	164	158	161	156	151	153	149	145	140
2	178	162	148	137	172	157	145	134	148	138	130	140	132	125	133	126	120	115
3	162	142	126	114	156	138	123	112	130	118	108	124	113	105	117	109	102	97
4	148	125	109	96	143	122	107	95	116	103	92	110	99	90	105	95	87	83
5	136	112	95	83	131	109	93	82	104	90	80	99	87	78	94	84	76	71
6	126	101	84	72	121	98	83	71	94	80	70	90	77	68	86	75	67	63
7	117	91	75	64	113	89	74	63	85	72	62	82	69	60	78	67	59	55
8	108	83	68	57	105	82	67	56	78	65	55	75	63	54	72	61	53	49
9	101	76	61	51	98	75	60	51	72	59	50	69	57	49	66	56	48	44
10	95	71	56	46	92	69	55	46	67	54	45	64	52	44	62	51	44	40

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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

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

UGR Viewed Endwise

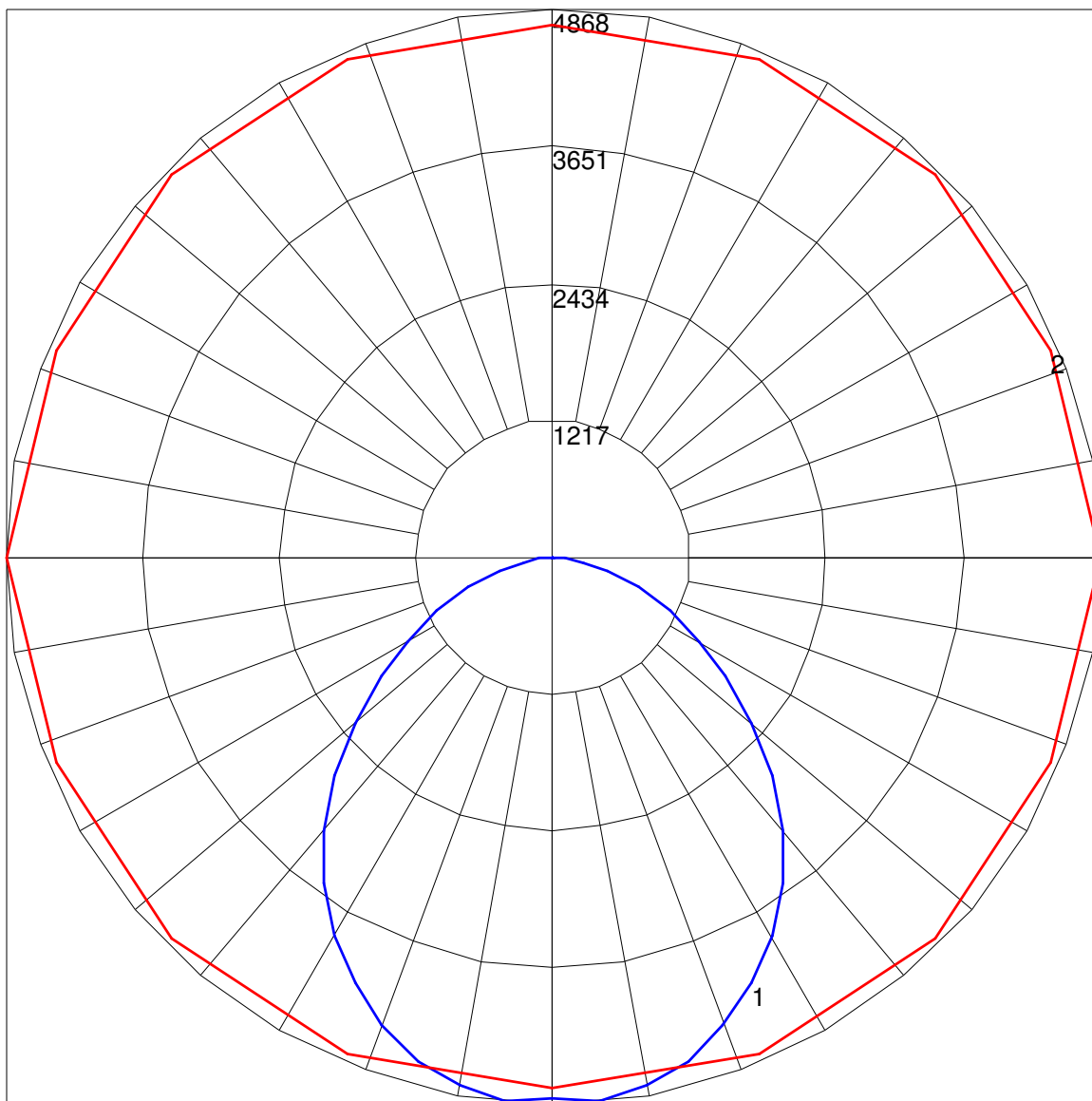
4H	2H	19.6	20.8	20.1	21.3	21.9	21.4	22.7	21.9	23.2	23.7
	3H	21.3	22.4	21.8	22.9	23.4	23.9	25.0	24.4	25.5	26.0
	4H	21.9	22.9	22.4	23.4	24.0	25.1	26.1	25.6	26.6	27.2
	6H	22.3	23.2	22.9	23.8	24.4	26.3	27.2	26.9	27.8	28.4
	8H	22.5	23.3	23.1	23.9	24.5	27.0	27.8	27.5	28.3	29.0
	12H	22.6	23.3	23.2	23.9	24.6	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 = 4868.388 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.)