



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L75-8TW-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] 31-OCT-2019

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L75-8TW-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	7517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	51.39
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)	3.72 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	26287	22226	22187
55	21695	19021	19533
65	17868	15977	16455
75	12073	13128	13483
85	7084	11276	11056

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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	2407.601	2407.601	2407.601	2407.601	2407.601
5	2434.033	2398.407	2399.557	2393.811	2369.677
10	2393.811	2363.931	2369.677	2366.229	2344.394
15	2323.709	2301.874	2317.963	2324.858	2301.874
20	2217.981	2212.235	2239.816	2251.308	2237.518
25	2093.866	2101.910	2140.984	2167.416	2157.073
30	1951.364	1962.856	2029.510	2069.733	2067.434
35	1777.832	1798.518	1895.052	1951.364	1959.408
40	1592.809	1607.749	1729.565	1814.607	1834.144
45	1374.459	1412.383	1552.587	1665.210	1692.791
50	1148.064	1208.972	1380.205	1503.171	1537.647
55	930.862	1010.158	1203.226	1331.938	1381.354
60	749.287	822.836	1033.142	1161.854	1213.569
65	575.756	656.201	874.551	991.771	1036.590
70	403.374	511.400	724.004	826.284	869.954
75	248.230	386.136	584.949	681.483	719.407
80	137.906	266.617	466.580	556.219	580.353
85	58.610	183.874	372.345	449.342	465.431
90	8.044	126.413	288.452	356.256	378.091
95	1.149	86.191	230.992	282.706	305.691
100	0.000	56.311	179.277	230.992	249.379
105	0.000	40.222	139.055	188.471	203.411
110	0.000	27.581	106.877	153.995	166.636
115	0.000	22.984	87.340	128.712	137.906
120	0.000	17.238	66.654	105.728	114.921
125	0.000	10.343	49.416	83.893	94.235
130	0.000	6.895	35.626	65.505	74.699
135	0.000	3.448	26.432	51.715	58.610
140	0.000	3.448	18.387	40.222	45.969
145	0.000	0.000	11.492	25.283	32.178
150	0.000	0.000	8.044	18.387	22.984
155	0.000	0.000	5.746	9.194	14.940
160	0.000	0.000	2.298	6.895	8.044
165	0.000	0.000	0.000	2.298	3.448
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	880.40	N.A.	11.70
0-30	1863.8	N.A.	24.80
0-40	3037.31	N.A.	40.40
0-60	5280.16	N.A.	70.20
0-80	6676.15	N.A.	88.80
0-90	7027.02	N.A.	93.50
10-90	6799.08	N.A.	90.50
20-40	2156.91	N.A.	28.70
20-50	3345.96	N.A.	44.50
40-70	3069.73	N.A.	40.80
60-80	1396.00	N.A.	18.60
70-80	569.12	N.A.	7.60
80-90	350.86	N.A.	4.70
90-110	334.83	N.A.	4.50
90-120	411.59	N.A.	5.50
90-130	455.17	N.A.	6.10
90-150	486.28	N.A.	6.50
90-180	489.54	N.A.	6.50
110-180	154.71	N.A.	2.10
0-180	7516.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.94
10-20	652.46
20-30	983.40
30-40	1173.51
40-50	1189.05
50-60	1053.8
60-70	826.88
70-80	569.12
80-90	350.86
90-100	208.90
100-110	125.93
110-120	76.76
120-130	43.57
130-140	22.02
140-150	9.09
150-160	2.84
160-170	0.41
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	236	236	236	236	229	229	229	229	216	216	216	204	204	204	193	193	193	188
1	213	202	193	184	206	196	188	180	185	178	172	175	170	164	166	161	157	152
2	193	176	161	149	186	171	157	146	161	150	141	153	144	136	145	137	131	125
3	176	154	137	123	170	150	134	121	142	129	118	135	123	114	128	118	110	105
4	161	136	118	104	155	133	116	103	126	112	100	120	107	97	114	103	95	90
5	148	122	103	90	143	119	102	89	113	98	87	108	95	84	103	91	82	78
6	137	110	91	78	132	107	90	78	102	87	76	97	84	74	93	81	72	68
7	127	99	82	69	122	97	80	68	93	78	67	89	76	66	85	73	64	60
8	118	91	73	62	114	89	72	61	85	70	60	81	68	59	78	66	58	54
9	110	83	67	55	107	81	66	55	78	64	54	75	62	53	72	61	52	48
10	103	77	61	50	100	75	60	50	72	58	49	70	57	48	67	56	47	44

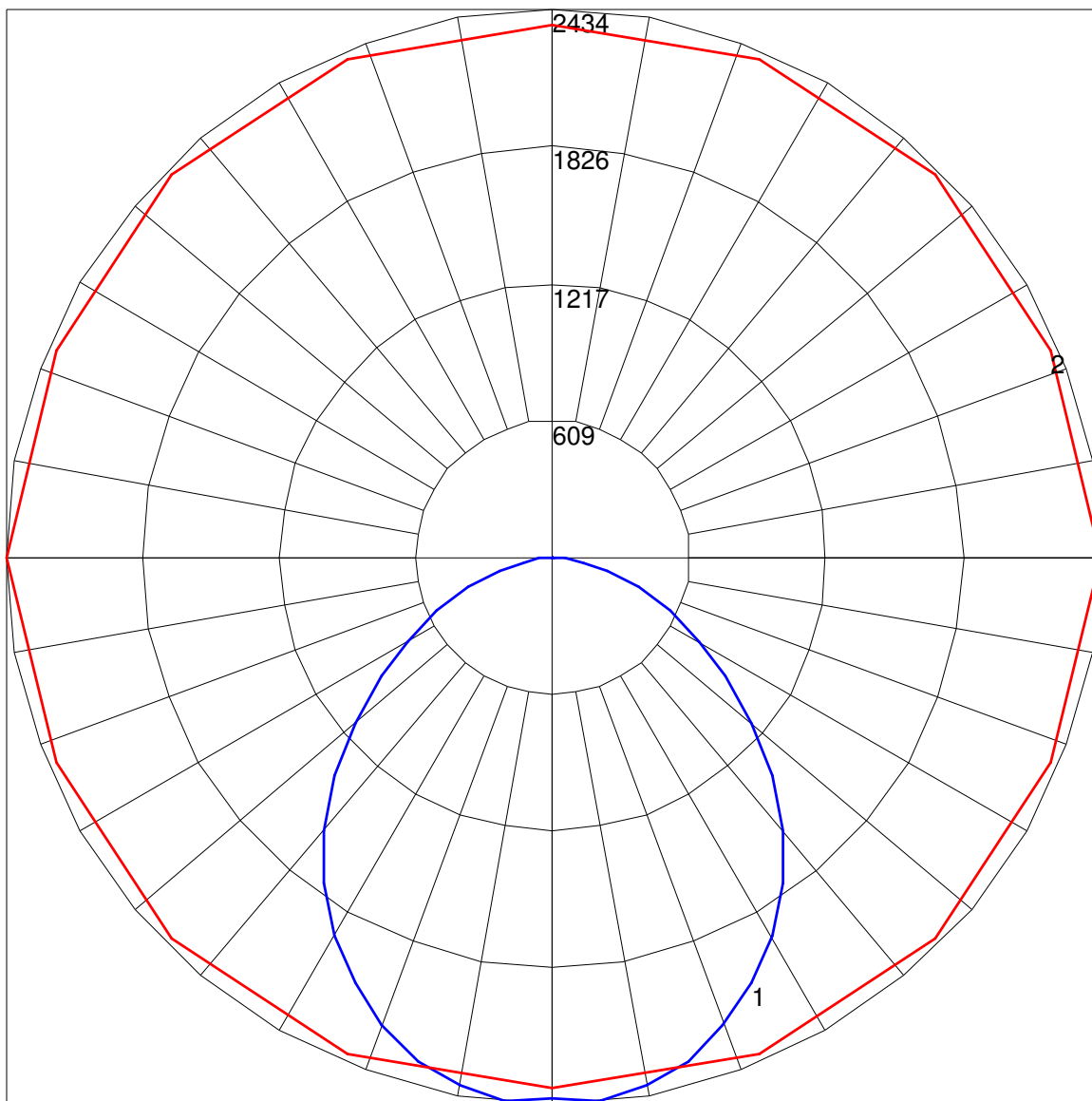
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UGR TABLE - CORRECTED

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	18.4	19.9	18.9	20.4	20.9	20.8	22.3	21.2	22.7	23.2
	3H	19.9	21.3	20.4	21.7	22.3	23.0	24.3	23.4	24.8	25.3
	4H	20.4	21.7	20.9	22.2	22.7	24.0	25.3	24.5	25.8	26.3
	6H	20.7	21.9	21.2	22.4	23.0	25.0	26.2	25.6	26.7	27.3
	8H	20.8	21.9	21.3	22.5	23.0	25.6	26.7	26.1	27.2	27.8
	12H	20.9	22.0	21.4	22.5	23.1	26.1	27.2	26.7	27.7	28.3
4H	2H	19.2	20.5	19.7	21.0	21.5	21.1	22.4	21.6	22.9	23.4
	3H	20.9	22.0	21.4	22.5	23.1	23.5	24.6	24.0	25.1	25.7
	4H	21.5	22.5	22.1	23.1	23.6	24.7	25.7	25.2	26.2	26.8
	6H	22.0	22.8	22.5	23.4	24.0	25.9	26.8	26.5	27.4	28.0
	8H	22.1	22.9	22.7	23.5	24.1	26.5	27.4	27.1	27.9	28.5
	12H	22.2	22.9	22.8	23.5	24.2	27.2	28.0	27.8	28.6	29.2
8H	4H	22.0	22.9	22.6	23.4	24.0	24.9	25.7	25.4	26.2	26.9
	6H	22.6	23.3	23.2	24.0	24.6	26.2	26.9	26.8	27.5	28.1
	8H	22.9	23.5	23.5	24.1	24.8	27.0	27.6	27.6	28.2	28.9
	12H	23.1	23.6	23.7	24.2	24.9	27.8	28.4	28.4	29.0	29.7
12H	4H	22.1	22.9	22.7	23.5	24.1	24.8	25.6	25.4	26.2	26.8
	6H	22.9	23.5	23.5	24.1	24.7	26.3	26.9	26.9	27.5	28.2
	8H	23.2	23.7	23.8	24.3	25.0	27.0	27.6	27.7	28.2	28.9

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 2434.033 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.)