



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L45-8FS-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] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L45-8FS-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	4375
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	29.6
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	15299	12936	12913
55	12627	11071	11368
65	10399	9299	9577
75	7027	7641	7847
85	4123	6563	6435

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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	1401.257	1401.257	1401.257	1401.257	1401.257
5	1416.641	1395.906	1396.575	1393.231	1379.185
10	1393.231	1375.841	1379.185	1377.178	1364.470
15	1352.431	1339.722	1349.086	1353.099	1339.722
20	1290.896	1287.551	1303.604	1310.293	1302.266
25	1218.659	1223.341	1246.082	1261.466	1255.446
30	1135.721	1142.409	1181.203	1204.613	1203.275
35	1034.723	1046.763	1102.947	1135.721	1140.403
40	927.037	935.732	1006.631	1056.127	1067.497
45	799.954	822.026	903.627	969.175	985.228
50	668.189	703.638	803.298	874.866	894.932
55	541.775	587.926	700.294	775.206	803.967
60	436.095	478.902	601.303	676.215	706.314
65	335.098	381.918	509.001	577.224	603.310
70	234.769	297.642	421.380	480.909	506.325
75	144.473	224.736	340.449	396.633	418.705
80	80.263	155.175	271.556	323.727	337.773
85	34.112	107.017	216.710	261.523	270.887
90	4.682	73.574	167.883	207.346	220.054
95	0.669	50.164	134.440	164.539	177.916
100	0.000	32.774	104.342	134.440	145.142
105	0.000	23.410	80.932	109.693	118.388
110	0.000	16.053	62.204	89.627	96.984
115	0.000	13.377	50.833	74.912	80.263
120	0.000	10.033	38.794	61.535	66.886
125	0.000	6.020	28.761	48.827	54.846
130	0.000	4.013	20.735	38.125	43.476
135	0.000	2.007	15.384	30.099	34.112
140	0.000	2.007	10.702	23.410	26.754
145	0.000	0.000	6.689	14.715	18.728
150	0.000	0.000	4.682	10.702	13.377
155	0.000	0.000	3.344	5.351	8.695
160	0.000	0.000	1.338	4.013	4.682
165	0.000	0.000	0.000	1.338	2.007
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	512.40	N.A.	11.70
0-30	1084.76	N.A.	24.80
0-40	1767.75	N.A.	40.40
0-60	3073.12	N.A.	70.20
0-80	3885.61	N.A.	88.80
0-90	4089.82	N.A.	93.50
10-90	3957.16	N.A.	90.50
20-40	1255.35	N.A.	28.70
20-50	1947.4	N.A.	44.50
40-70	1786.63	N.A.	40.80
60-80	812.49	N.A.	18.60
70-80	331.23	N.A.	7.60
80-90	204.21	N.A.	4.70
90-110	194.88	N.A.	4.50
90-120	239.55	N.A.	5.50
90-130	264.91	N.A.	6.10
90-150	283.02	N.A.	6.50
90-180	284.92	N.A.	6.50
110-180	90.04	N.A.	2.10
0-180	4374.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.66
10-20	379.74
20-30	572.36
30-40	683.00
40-50	692.05
50-60	613.32
60-70	481.26
70-80	331.23
80-90	204.21
90-100	121.59
100-110	73.29
110-120	44.68
120-130	25.36
130-140	12.81
140-150	5.29
150-160	1.65
160-170	0.24
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	203	203	203	203	197	197	197	197	185	185	185	175	175	175	166	166	166	161
1	183	174	166	158	177	169	161	155	159	153	148	151	146	141	143	139	135	131
2	166	151	138	128	160	147	135	126	139	129	121	131	123	116	124	118	112	108
3	151	132	118	106	146	129	115	104	122	110	101	115	106	98	110	102	95	90
4	138	117	102	90	133	114	100	88	108	96	86	103	92	84	98	89	81	77
5	127	105	89	77	123	102	87	76	97	84	74	92	81	72	88	78	71	67
6	117	94	78	67	113	92	77	67	88	75	65	84	72	64	80	70	62	58
7	109	85	70	59	105	83	69	59	80	67	58	76	65	56	73	63	55	52
8	101	78	63	53	98	76	62	52	73	60	51	70	59	50	67	57	50	46
9	95	71	57	48	92	70	56	47	67	55	46	64	53	46	62	52	45	41
10	89	66	52	43	86	65	52	43	62	50	42	60	49	41	58	48	41	38

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UGR TABLE - CORRECTED

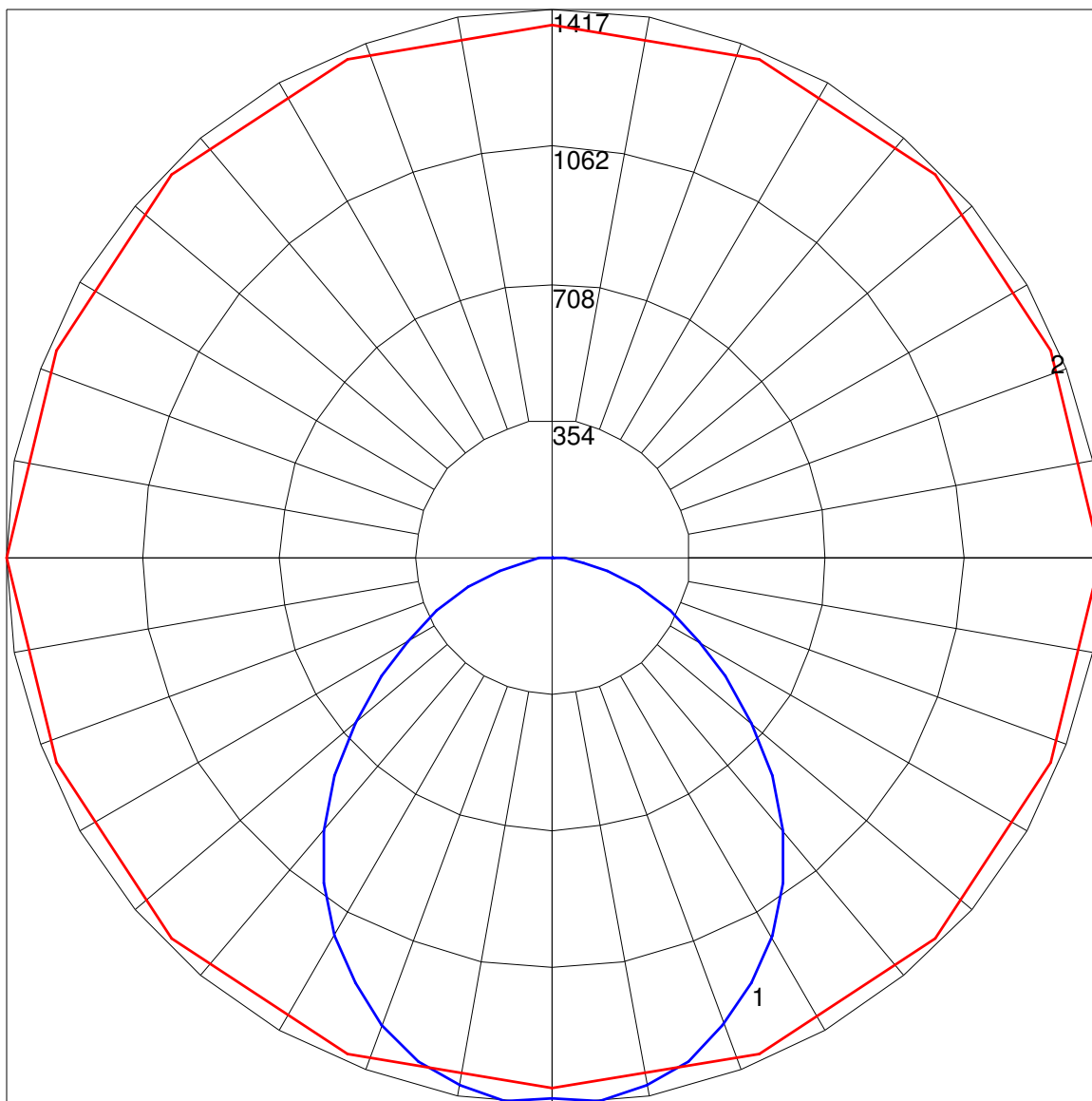
Reflectances

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	17.0	18.5	17.5	19.0	19.5	19.4	20.9	19.8	21.3	21.8
	3H	18.5	19.9	19.0	20.3	20.9	21.6	22.9	22.0	23.4	23.9
	4H	19.0	20.3	19.5	20.8	21.3	22.6	23.9	23.1	24.4	24.9
	6H	19.3	20.5	19.8	21.0	21.6	23.6	24.8	24.2	25.3	25.9
	8H	19.4	20.5	19.9	21.1	21.6	24.2	25.3	24.7	25.8	26.4
	12H	19.5	20.6	20.0	21.1	21.7	24.7	25.8	25.3	26.3	26.9
4H	2H	17.8	19.1	18.3	19.6	20.1	19.7	21.0	20.2	21.5	22.0
	3H	19.5	20.6	20.0	21.1	21.7	22.1	23.2	22.6	23.7	24.3
	4H	20.1	21.1	20.7	21.6	22.2	23.3	24.3	23.8	24.8	25.4
	6H	20.6	21.4	21.1	22.0	22.6	24.5	25.4	25.1	26.0	26.6
	8H	20.7	21.5	21.3	22.1	22.7	25.1	26.0	25.7	26.5	27.1
	12H	20.8	21.5	21.4	22.1	22.8	25.8	26.6	26.4	27.2	27.8
8H	4H	20.6	21.5	21.2	22.0	22.6	23.5	24.3	24.0	24.8	25.5
	6H	21.2	21.9	21.8	22.6	23.2	24.8	25.5	25.4	26.1	26.7
	8H	21.5	22.1	22.1	22.7	23.4	25.6	26.2	26.2	26.8	27.5
	12H	21.7	22.2	22.3	22.8	23.5	26.4	27.0	27.0	27.6	28.3
12H	4H	20.7	21.5	21.3	22.1	22.7	23.4	24.2	24.0	24.8	25.4
	6H	21.5	22.1	22.1	22.7	23.3	24.9	25.5	25.5	26.1	26.8
	8H	21.8	22.3	22.4	22.9	23.6	25.6	26.2	26.3	26.8	27.5

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1416.641 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.)