



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-(L40)-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

[ISSUE DATE] 06-08-2021

[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-L50-840-(L40)-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	4078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	24.7
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	14261	12058	12037
55	11770	10319	10596
65	9693	8668	8927
75	6550	7122	7314
85	3843	6117	5998

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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	1306.132	1306.132	1306.132	1306.132	1306.132
5	1320.472	1301.145	1301.768	1298.651	1285.558
10	1298.651	1282.441	1285.558	1283.688	1271.842
15	1260.620	1248.775	1257.503	1261.244	1248.775
20	1203.263	1200.145	1215.108	1221.343	1213.861
25	1135.930	1140.294	1161.491	1175.831	1170.220
30	1058.622	1064.856	1101.016	1122.837	1121.590
35	964.480	975.703	1028.073	1058.622	1062.986
40	864.105	872.210	938.295	984.431	995.030
45	745.649	766.223	842.284	903.382	918.345
50	622.829	655.872	748.766	815.475	834.179
55	504.996	548.014	652.754	722.581	749.389
60	406.491	446.392	560.483	630.310	658.365
65	312.350	355.991	474.447	538.039	562.354
70	218.832	277.436	392.775	448.262	471.953
75	134.666	209.480	317.337	369.707	390.281
80	74.814	144.641	253.122	301.751	314.843
85	31.796	99.752	201.998	243.770	252.498
90	4.364	68.580	156.486	193.270	205.116
95	0.623	46.759	125.314	153.369	165.838
100	0.000	30.549	97.259	125.314	135.289
105	0.000	21.821	75.438	102.246	110.351
110	0.000	14.963	57.981	83.543	90.401
115	0.000	12.469	47.382	69.827	74.814
120	0.000	9.352	36.160	57.358	62.345
125	0.000	5.611	26.808	45.512	51.123
130	0.000	3.741	19.327	35.537	40.524
135	0.000	1.870	14.339	28.055	31.796
140	0.000	1.870	9.975	21.821	24.938
145	0.000	0.000	6.235	13.716	17.457
150	0.000	0.000	4.364	9.975	12.469
155	0.000	0.000	3.117	4.988	8.105
160	0.000	0.000	1.247	3.741	4.364
165	0.000	0.000	0.000	1.247	1.870
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	477.62	N.A.	11.70
0-30	1011.12	N.A.	24.80
0-40	1647.75	N.A.	40.40
0-60	2864.5	N.A.	70.20
0-80	3621.84	N.A.	88.80
0-90	3812.18	N.A.	93.50
10-90	3688.53	N.A.	90.50
20-40	1170.13	N.A.	28.70
20-50	1815.2	N.A.	44.50
40-70	1665.34	N.A.	40.80
60-80	757.33	N.A.	18.60
70-80	308.75	N.A.	7.60
80-90	190.35	N.A.	4.70
90-110	181.65	N.A.	4.50
90-120	223.29	N.A.	5.50
90-130	246.93	N.A.	6.10
90-150	263.81	N.A.	6.50
90-180	265.58	N.A.	6.50
110-180	83.93	N.A.	2.10
0-180	4077.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.66
10-20	353.96
20-30	533.50
30-40	636.63
40-50	645.07
50-60	571.69
60-70	448.59
70-80	308.75
80-90	190.35
90-100	113.33
100-110	68.32
110-120	41.65
120-130	23.64
130-140	11.94
140-150	4.93
150-160	1.54
160-170	0.23
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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UGR TABLE - CORRECTED

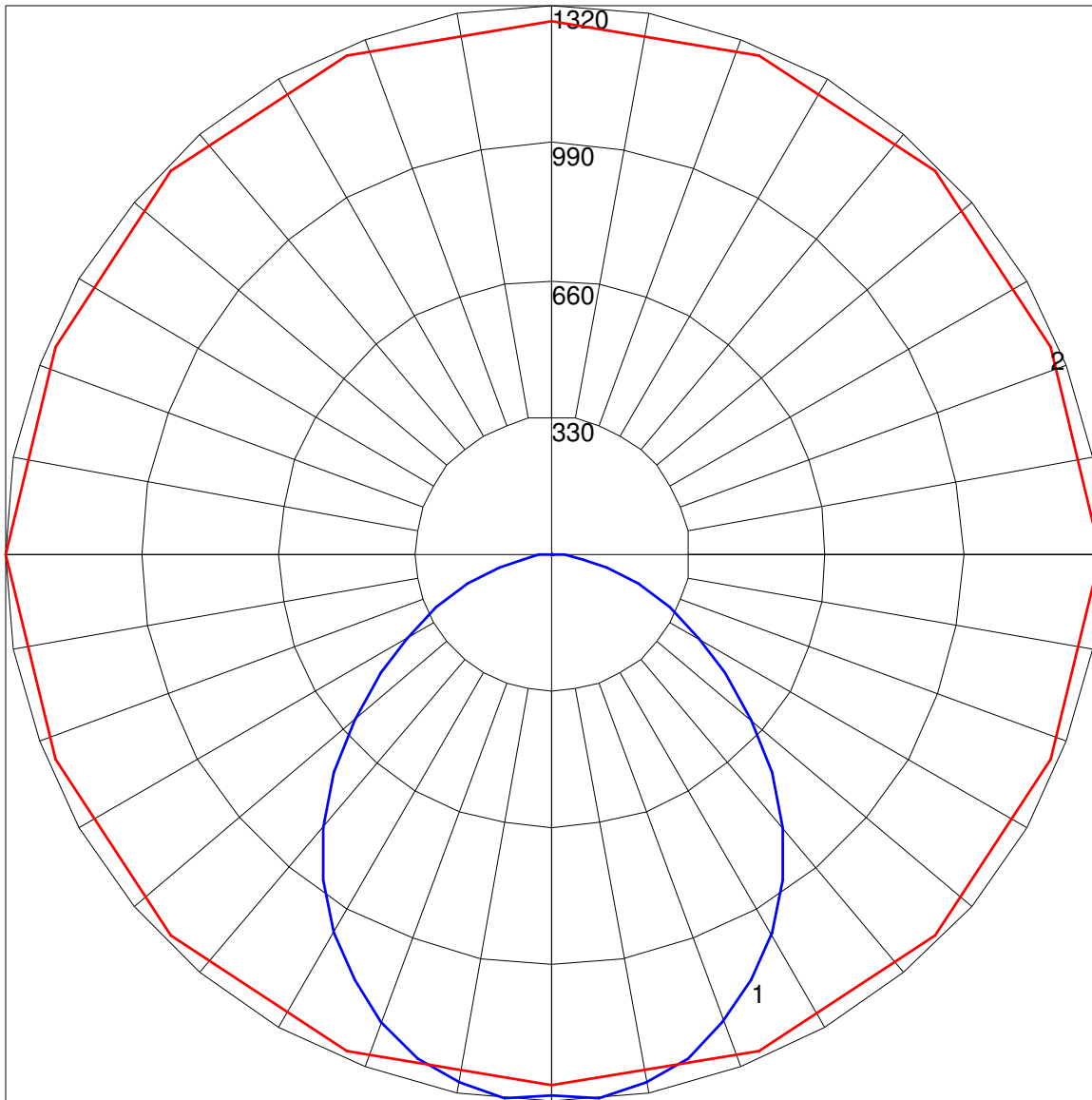
Reflectances

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	17.7	19.2	18.1	19.6	20.1	21.1	22.6	21.5	23.0	23.5
	3H	18.9	20.2	19.3	20.7	21.2	23.3	24.6	23.7	25.1	25.6
	4H	19.2	20.5	19.7	21.0	21.5	24.3	25.6	24.8	26.1	26.6
	6H	19.4	20.6	19.9	21.1	21.6	25.3	26.5	25.9	27.0	27.6
	8H	19.4	20.5	19.9	21.1	21.6	25.9	27.0	26.4	27.5	28.1
	12H	19.4	20.5	19.9	21.0	21.6	26.4	27.5	27.0	28.0	28.6
4H	2H	18.7	20.0	19.2	20.5	21.0	21.4	22.7	21.9	23.2	23.7
	3H	20.2	21.3	20.7	21.8	22.3	23.8	24.9	24.3	25.4	26.0
	4H	20.6	21.6	21.2	22.2	22.8	25.0	26.0	25.5	26.5	27.1
	6H	20.9	21.8	21.5	22.3	23.0	26.2	27.1	26.8	27.7	28.3
	8H	21.0	21.8	21.5	22.4	23.0	26.8	27.7	27.4	28.2	28.8
	12H	21.0	21.7	21.6	22.3	23.0	27.5	28.3	28.1	28.9	29.5
8H	4H	21.4	22.2	22.0	22.8	23.4	25.2	26.0	25.7	26.5	27.2
	6H	21.9	22.6	22.5	23.2	23.8	26.5	27.2	27.1	27.8	28.4
	8H	22.0	22.6	22.6	23.3	23.9	27.3	27.9	27.9	28.5	29.2
	12H	22.1	22.7	22.7	23.3	24.0	28.1	28.7	28.7	29.3	30.0
12H	4H	21.6	22.3	22.2	22.9	23.6	25.1	25.9	25.7	26.5	27.1
	6H	22.2	22.8	22.8	23.4	24.1	26.6	27.2	27.2	27.8	28.5
	8H	22.4	23.0	23.0	23.6	24.3	27.3	27.9	28.0	28.5	29.2

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1320.472 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.)