



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-835-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] 31-AUG-2020

[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-L50-835-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	4867
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	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)	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	17020	14391	14365
55	14047	12316	12647
65	11569	10345	10654
75	7817	8500	8729
85	4587	7301	7158

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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	1558.839	1558.839	1558.839	1558.839	1558.839
5	1575.952	1552.886	1553.630	1549.910	1534.284
10	1549.910	1530.564	1534.284	1532.052	1517.915
15	1504.521	1490.384	1500.801	1505.265	1490.384
20	1436.066	1432.346	1450.204	1457.644	1448.716
25	1355.706	1360.915	1386.213	1403.327	1396.630
30	1263.441	1270.881	1314.038	1340.080	1338.592
35	1151.085	1164.479	1226.981	1263.441	1268.649
40	1031.289	1040.962	1119.834	1174.896	1187.545
45	889.915	914.469	1005.246	1078.166	1096.024
50	743.332	782.768	893.635	973.251	995.573
55	602.701	654.043	779.047	862.384	894.379
60	485.137	532.758	668.924	752.261	785.744
65	372.782	424.867	566.242	642.137	671.156
70	261.171	331.114	468.768	534.990	563.265
75	160.720	250.009	378.735	441.237	465.791
80	89.289	172.626	302.095	360.133	375.758
85	37.948	119.052	241.081	290.934	301.351
90	5.209	81.848	186.763	230.663	244.801
95	0.744	55.806	149.559	183.043	197.924
100	0.000	36.460	116.076	149.559	161.464
105	0.000	26.043	90.033	122.028	131.701
110	0.000	17.858	69.199	99.706	107.891
115	0.000	14.882	56.550	83.336	89.289
120	0.000	11.161	43.156	68.455	74.408
125	0.000	6.697	31.995	54.318	61.014
130	0.000	4.464	23.066	42.412	48.365
135	0.000	2.232	17.114	33.483	37.948
140	0.000	2.232	11.905	26.043	29.763
145	0.000	0.000	7.441	16.370	20.834
150	0.000	0.000	5.209	11.905	14.882
155	0.000	0.000	3.720	5.953	9.673
160	0.000	0.000	1.488	4.464	5.209
165	0.000	0.000	0.000	1.488	2.232
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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Zone	Lumens	%Lamp	%Fixt
0-20	570.03	N.A.	11.70
0-30	1206.75	N.A.	24.80
0-40	1966.55	N.A.	40.40
0-60	3418.72	N.A.	70.20
0-80	4322.58	N.A.	88.80
0-90	4549.75	N.A.	93.50
10-90	4402.17	N.A.	90.50
20-40	1396.53	N.A.	28.70
20-50	2166.4	N.A.	44.50
40-70	1987.54	N.A.	40.80
60-80	903.86	N.A.	18.60
70-80	368.48	N.A.	7.60
80-90	227.17	N.A.	4.70
90-110	216.79	N.A.	4.50
90-120	266.49	N.A.	5.50
90-130	294.71	N.A.	6.10
90-150	314.85	N.A.	6.50
90-180	316.96	N.A.	6.50
110-180	100.17	N.A.	2.10
0-180	4866.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.58
10-20	422.44
20-30	636.72
30-40	759.81
40-50	769.87
50-60	682.30
60-70	535.38
70-80	368.48
80-90	227.17
90-100	135.26
100-110	81.53
110-120	49.70
120-130	28.21
130-140	14.25
140-150	5.89
150-160	1.84
160-170	0.27
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

X=2H	Y=2H	18.3	19.8	18.7	20.2	20.7	21.7	23.2	22.1	23.6	24.1
	3H	19.5	20.8	19.9	21.3	21.8	23.9	25.2	24.3	25.7	26.2
	4H	19.8	21.1	20.3	21.6	22.1	24.9	26.2	25.4	26.7	27.2
	6H	20.0	21.2	20.5	21.7	22.2	25.9	27.1	26.5	27.6	28.2
	8H	20.0	21.1	20.5	21.7	22.2	26.5	27.6	27.0	28.1	28.7
	12H	20.0	21.1	20.5	21.6	22.2	27.0	28.1	27.6	28.6	29.2

UGR Viewed Endwise

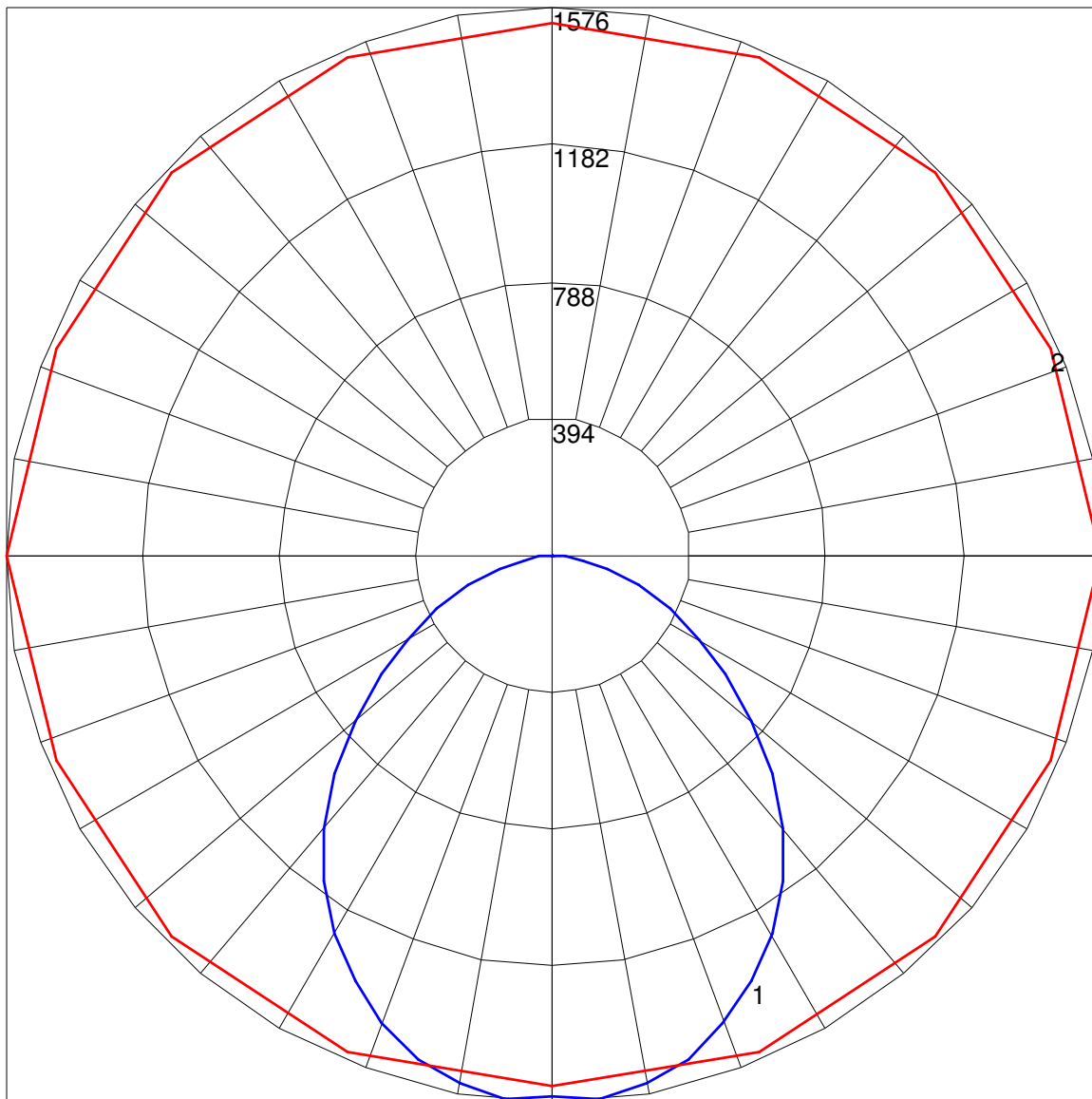
4H	2H	19.3	20.6	19.8	21.1	21.6	22.0	23.3	22.5	23.8	24.3
	3H	20.8	21.9	21.3	22.4	22.9	24.4	25.5	24.9	26.0	26.6
	4H	21.2	22.2	21.8	22.8	23.4	25.6	26.6	26.1	27.1	27.7
	6H	21.5	22.4	22.1	22.9	23.6	26.8	27.7	27.4	28.3	28.9
	8H	21.6	22.4	22.1	23.0	23.6	27.4	28.3	28.0	28.8	29.4
	12H	21.6	22.3	22.2	22.9	23.6	28.1	28.9	28.7	29.5	30.1

8H	4H	22.0	22.8	22.6	23.4	24.0	25.8	26.6	26.3	27.1	27.8
	6H	22.5	23.2	23.1	23.8	24.4	27.1	27.8	27.7	28.4	29.0
	8H	22.6	23.2	23.2	23.9	24.5	27.9	28.5	28.5	29.1	29.8
	12H	22.7	23.3	23.3	23.9	24.6	28.7	29.3	29.3	29.9	30.6

12H	4H	22.2	22.9	22.8	23.5	24.2	25.7	26.5	26.3	27.1	27.7
	6H	22.8	23.4	23.4	24.0	24.7	27.2	27.8	27.8	28.4	29.1
	8H	23.0	23.6	23.6	24.2	24.9	27.9	28.5	28.6	29.1	29.8

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 1575.952 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.)