



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-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] 12-10-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-840-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[_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	5013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	17531	14823	14796
55	14468	12685	13026
65	11916	10655	10973
75	8051	8755	8991
85	4724	7520	7373

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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	1605.604	1605.604	1605.604	1605.604	1605.604
5	1623.231	1599.473	1600.239	1596.407	1580.313
10	1596.407	1576.481	1580.313	1578.014	1563.452
15	1549.657	1535.095	1545.825	1550.423	1535.095
20	1479.148	1475.316	1493.710	1501.374	1492.177
25	1396.377	1401.742	1427.800	1445.427	1438.529
30	1301.344	1309.008	1353.459	1380.283	1378.750
35	1185.618	1199.413	1263.790	1301.344	1306.709
40	1062.228	1072.191	1153.429	1210.143	1223.171
45	916.612	941.903	1035.404	1110.511	1128.904
50	765.632	806.251	920.444	1002.449	1025.441
55	620.782	673.664	802.419	888.255	921.210
60	499.692	548.741	688.992	774.828	809.316
65	383.965	437.613	583.229	661.402	691.291
70	269.006	341.047	482.831	551.040	580.163
75	165.542	257.510	390.097	454.474	479.765
80	91.968	177.804	311.158	370.937	387.031
85	39.086	122.624	248.313	299.662	310.391
90	5.365	84.304	192.366	237.583	252.145
95	0.766	57.480	154.046	188.534	203.862
100	0.000	37.554	119.558	154.046	166.308
105	0.000	26.824	92.734	125.689	135.652
110	0.000	18.394	71.275	102.697	111.128
115	0.000	15.328	58.246	85.837	91.968
120	0.000	11.496	44.451	70.509	76.640
125	0.000	6.898	32.955	55.947	62.845
130	0.000	4.598	23.758	43.685	49.816
135	0.000	2.299	17.627	34.488	39.086
140	0.000	2.299	12.262	26.824	30.656
145	0.000	0.000	7.664	16.861	21.459
150	0.000	0.000	5.365	12.262	15.328
155	0.000	0.000	3.832	6.131	9.963
160	0.000	0.000	1.533	4.598	5.365
165	0.000	0.000	0.000	1.533	2.299
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	587.13	N.A.	11.70
0-30	1242.95	N.A.	24.80
0-40	2025.55	N.A.	40.40
0-60	3521.28	N.A.	70.20
0-80	4452.26	N.A.	88.80
0-90	4686.24	N.A.	93.50
10-90	4534.24	N.A.	90.50
20-40	1438.42	N.A.	28.70
20-50	2231.39	N.A.	44.50
40-70	2047.17	N.A.	40.80
60-80	930.98	N.A.	18.60
70-80	379.54	N.A.	7.60
80-90	233.99	N.A.	4.70
90-110	223.29	N.A.	4.50
90-120	274.49	N.A.	5.50
90-130	303.55	N.A.	6.10
90-150	324.29	N.A.	6.50
90-180	326.47	N.A.	6.50
110-180	103.17	N.A.	2.10
0-180	5012.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	152.01
10-20	435.12
20-30	655.82
30-40	782.60
40-50	792.97
50-60	702.77
60-70	551.44
70-80	379.54
80-90	233.99
90-100	139.32
100-110	83.98
110-120	51.19
120-130	29.06
130-140	14.68
140-150	6.06
150-160	1.90
160-170	0.28
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

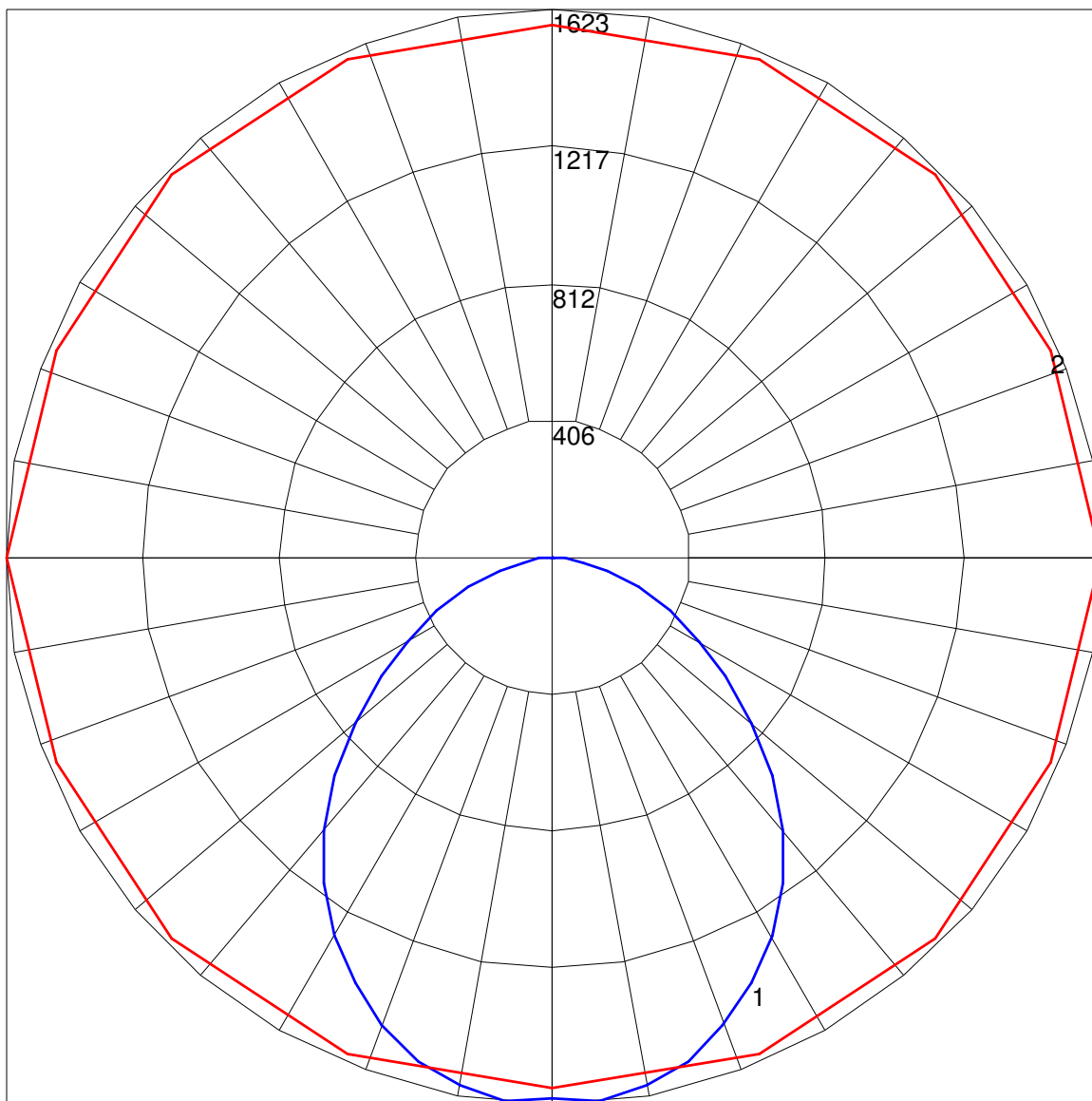
Reflectances

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	18.4	19.9	18.8	20.3	20.8	21.8	23.3	22.2	23.7	24.2
	3H	19.6	20.9	20.0	21.4	21.9	24.0	25.3	24.4	25.8	26.3
	4H	19.9	21.2	20.4	21.7	22.2	25.0	26.3	25.5	26.8	27.3
	6H	20.1	21.3	20.6	21.8	22.3	26.0	27.2	26.6	27.7	28.3
	8H	20.1	21.2	20.6	21.8	22.3	26.6	27.7	27.1	28.2	28.8
	12H	20.1	21.2	20.6	21.7	22.3	27.1	28.2	27.7	28.7	29.3
4H	2H	19.4	20.7	19.9	21.2	21.7	22.1	23.4	22.6	23.9	24.4
	3H	20.9	22.0	21.4	22.5	23.0	24.5	25.6	25.0	26.1	26.7
	4H	21.3	22.3	21.9	22.9	23.5	25.7	26.7	26.2	27.2	27.8
	6H	21.6	22.5	22.2	23.0	23.7	26.9	27.8	27.5	28.4	29.0
	8H	21.7	22.5	22.2	23.1	23.7	27.5	28.4	28.1	28.9	29.5
	12H	21.7	22.4	22.3	23.0	23.7	28.2	29.0	28.8	29.6	30.2
8H	4H	22.1	22.9	22.7	23.5	24.1	25.9	26.7	26.4	27.2	27.9
	6H	22.6	23.3	23.2	23.9	24.5	27.2	27.9	27.8	28.5	29.1
	8H	22.7	23.3	23.3	24.0	24.6	28.0	28.6	28.6	29.2	29.9
	12H	22.8	23.4	23.4	24.0	24.7	28.8	29.4	29.4	30.0	30.7
12H	4H	22.3	23.0	22.9	23.6	24.3	25.8	26.6	26.4	27.2	27.8
	6H	22.9	23.5	23.5	24.1	24.8	27.3	27.9	27.9	28.5	29.2
	8H	23.1	23.7	23.7	24.3	25.0	28.0	28.6	28.7	29.2	29.9

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 1623.231 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.)