



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-835-(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

[ISSUEDATE] 09-21-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44.625" LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-835-(L40)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K 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	4139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	28.6
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	14474	12238	12217
55	11946	10473	10755
65	9838	8797	9060
75	6648	7229	7424
85	3901	6209	6087

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L50-835-(L40)-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1325.670	1325.670	1325.670	1325.670	1325.670
5	1340.223	1320.607	1321.240	1318.076	1304.788
10	1318.076	1301.624	1304.788	1302.890	1290.867
15	1279.477	1267.454	1276.313	1280.110	1267.454
20	1221.261	1218.097	1233.284	1239.612	1232.018
25	1152.921	1157.351	1178.865	1193.419	1187.724
30	1074.457	1080.784	1117.486	1139.633	1138.367
35	978.907	990.297	1043.451	1074.457	1078.886
40	877.030	885.256	952.331	999.156	1009.913
45	756.802	777.684	854.883	916.895	932.082
50	632.145	665.682	759.966	827.673	846.657
55	512.550	556.212	662.518	733.389	760.599
60	412.571	453.069	568.867	639.738	668.213
65	317.022	361.316	481.544	546.087	570.766
70	222.105	281.586	398.650	454.967	479.013
75	136.680	212.613	322.084	375.237	396.119
80	75.933	146.804	256.908	306.264	319.553
85	32.272	101.244	205.020	247.416	256.275
90	4.429	69.606	158.827	196.161	208.184
95	0.633	47.458	127.188	155.663	168.319
100	0.000	31.006	98.713	127.188	137.313
105	0.000	22.147	76.566	103.776	112.002
110	0.000	15.187	58.848	84.792	91.753
115	0.000	12.656	48.091	70.871	75.933
120	0.000	9.492	36.701	58.216	63.278
125	0.000	5.695	27.209	46.193	51.888
130	0.000	3.797	19.616	36.068	41.131
135	0.000	1.898	14.554	28.475	32.272
140	0.000	1.898	10.124	22.147	25.311
145	0.000	0.000	6.328	13.921	17.718
150	0.000	0.000	4.429	10.124	12.656
155	0.000	0.000	3.164	5.062	8.226
160	0.000	0.000	1.266	3.797	4.429
165	0.000	0.000	0.000	1.266	1.898
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L50-835-(L40)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	484.76	N.A.	11.70
0-30	1026.24	N.A.	24.80
0-40	1672.4	N.A.	40.40
0-60	2907.35	N.A.	70.20
0-80	3676.01	N.A.	88.80
0-90	3869.21	N.A.	93.50
10-90	3743.7	N.A.	90.50
20-40	1187.64	N.A.	28.70
20-50	1842.35	N.A.	44.50
40-70	1690.25	N.A.	40.80
60-80	768.66	N.A.	18.60
70-80	313.37	N.A.	7.60
80-90	193.19	N.A.	4.70
90-110	184.36	N.A.	4.50
90-120	226.63	N.A.	5.50
90-130	250.62	N.A.	6.10
90-150	267.75	N.A.	6.50
90-180	269.55	N.A.	6.50
110-180	85.18	N.A.	2.10
0-180	4138.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.51
10-20	359.26
20-30	541.48
30-40	646.15
40-50	654.71
50-60	580.24
60-70	455.30
70-80	313.37
80-90	193.19
90-100	115.03
100-110	69.34
110-120	42.27
120-130	23.99
130-140	12.12
140-150	5.01
150-160	1.57
160-170	0.23
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L50-835-(L40)-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L50-835-(L40)-DIM-UNV_.IES

UGR TABLE - CORRECTED

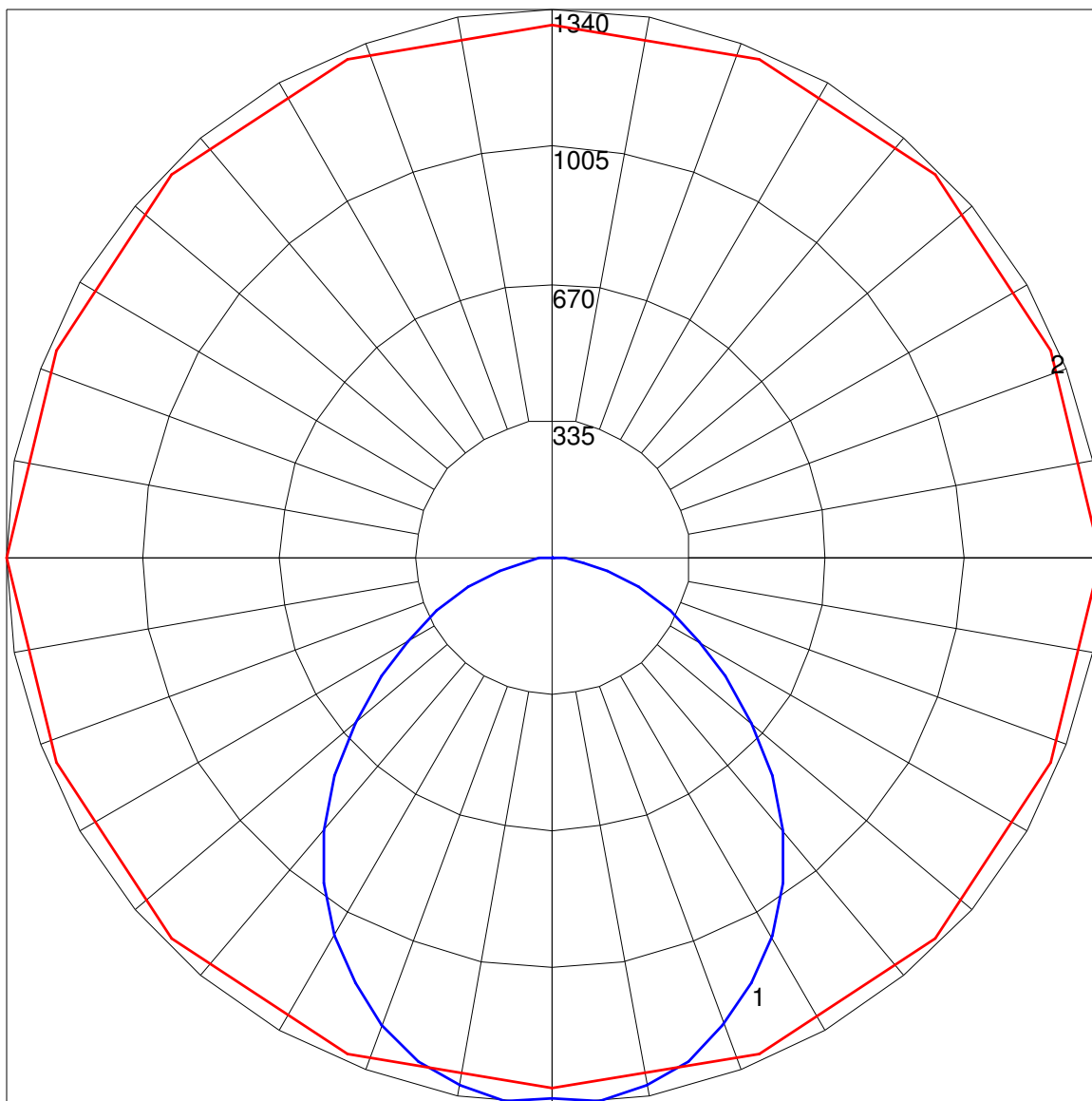
Reflectances

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 = 1340.223 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.)