



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-835-(L53)-EM10WLP-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] 06-12-2023

[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-L65-835-(L53)-EM10WLP-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	1470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	10
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	5141	4347	4339
55	4243	3720	3820
65	3494	3124	3218
75	2361	2567	2637
85	1385	2205	2162

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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	470.823	470.823	470.823	470.823	470.823
5	475.991	469.025	469.249	468.126	463.406
10	468.126	462.283	463.406	462.732	458.462
15	454.417	450.147	453.293	454.642	450.147
20	433.741	432.617	438.011	440.258	437.562
25	409.470	411.043	418.684	423.853	421.830
30	381.602	383.850	396.884	404.750	404.301
35	347.667	351.712	370.590	381.602	383.175
40	311.485	314.406	338.228	354.859	358.679
45	268.785	276.201	303.619	325.643	331.037
50	224.512	236.423	269.908	293.955	300.697
55	182.036	197.543	235.299	260.469	270.133
60	146.528	160.911	202.038	227.208	237.322
65	112.593	128.324	171.024	193.947	202.712
70	78.882	100.008	141.584	161.585	170.125
75	48.543	75.511	114.391	133.269	140.685
80	26.968	52.139	91.243	108.772	113.492
85	11.462	35.958	72.815	87.872	91.018
90	1.573	24.721	56.409	69.668	73.938
95	0.225	16.855	45.172	55.285	59.780
100	0.000	11.012	35.059	45.172	48.768
105	0.000	7.866	27.193	36.857	39.778
110	0.000	5.394	20.900	30.115	32.587
115	0.000	4.495	17.080	25.170	26.968
120	0.000	3.371	13.035	20.676	22.474
125	0.000	2.023	9.664	16.406	18.428
130	0.000	1.348	6.967	12.810	14.608
135	0.000	0.674	5.169	10.113	11.462
140	0.000	0.674	3.596	7.866	8.989
145	0.000	0.000	2.247	4.944	6.293
150	0.000	0.000	1.573	3.596	4.495
155	0.000	0.000	1.124	1.798	2.922
160	0.000	0.000	0.449	1.348	1.573
165	0.000	0.000	0.000	0.449	0.674
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	172.17	N.A.	11.70
0-30	364.48	N.A.	24.80
0-40	593.97	N.A.	40.40
0-60	1032.57	N.A.	70.20
0-80	1305.57	N.A.	88.80
0-90	1374.18	N.A.	93.50
10-90	1329.61	N.A.	90.50
20-40	421.80	N.A.	28.70
20-50	654.33	N.A.	44.50
40-70	600.31	N.A.	40.80
60-80	273.00	N.A.	18.60
70-80	111.29	N.A.	7.60
80-90	68.61	N.A.	4.70
90-110	65.48	N.A.	4.50
90-120	80.49	N.A.	5.50
90-130	89.01	N.A.	6.10
90-150	95.10	N.A.	6.50
90-180	95.73	N.A.	6.50
110-180	30.25	N.A.	2.10
0-180	1469.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.57
10-20	127.59
20-30	192.31
30-40	229.49
40-50	232.53
50-60	206.08
60-70	161.70
70-80	111.29
80-90	68.61
90-100	40.85
100-110	24.63
110-120	15.01
120-130	8.52
130-140	4.31
140-150	1.78
150-160	0.56
160-170	0.08
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

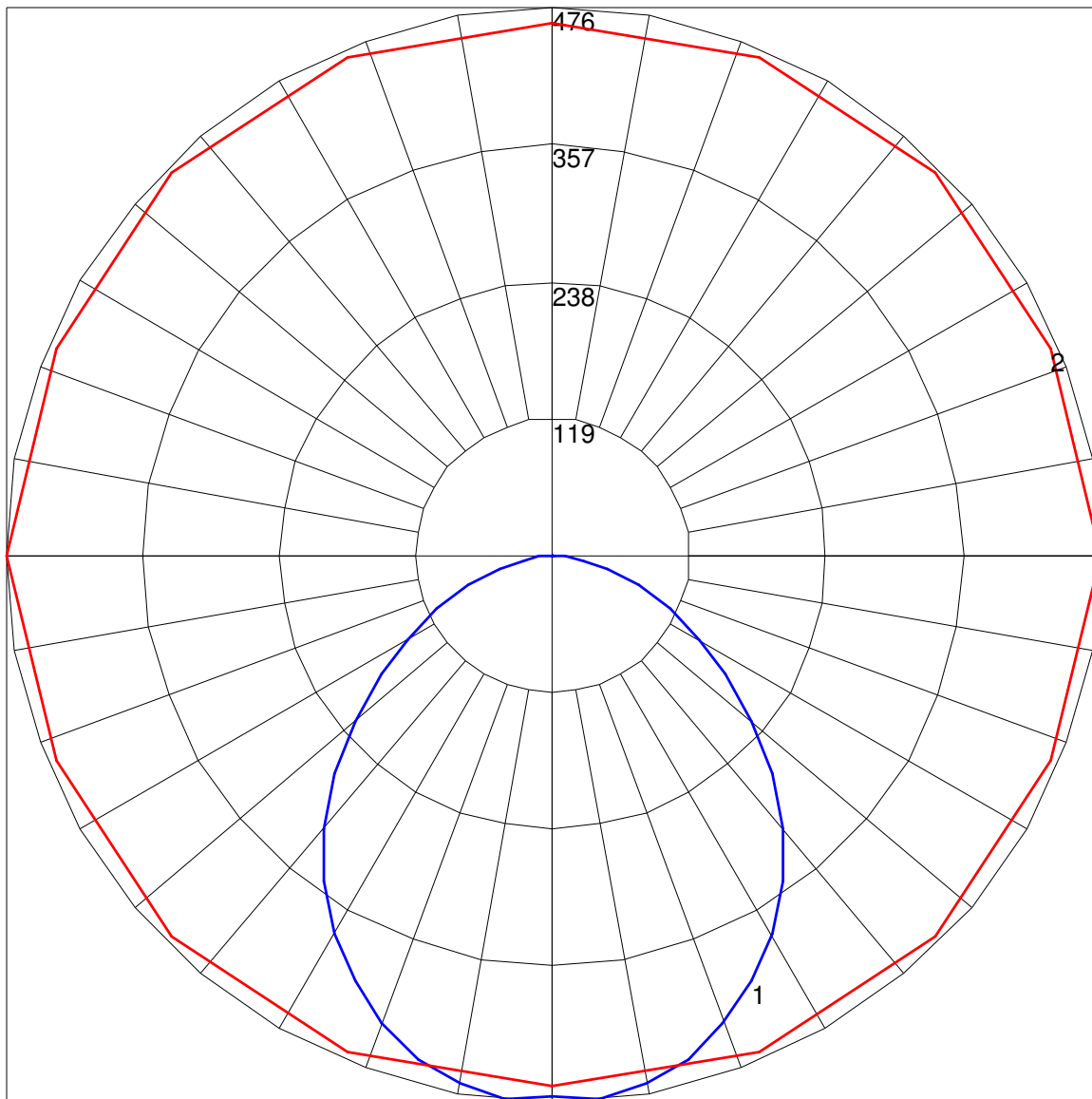
Reflectances

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	14.1	15.6	14.5	16.0	16.5	17.5	18.9	17.9	19.4	19.9
	3H	15.3	16.6	15.7	17.1	17.6	19.7	21.0	20.1	21.5	22.0
	4H	15.6	16.9	16.1	17.4	17.9	20.7	22.0	21.2	22.5	23.0
	6H	15.8	17.0	16.3	17.5	18.0	21.7	22.9	22.2	23.4	24.0
	8H	15.8	16.9	16.3	17.5	18.0	22.3	23.4	22.8	23.9	24.5
	12H	15.8	16.9	16.3	17.4	18.0	22.8	23.9	23.4	24.4	25.0
4H	2H	15.1	16.4	15.6	16.9	17.4	17.8	19.1	18.3	19.5	20.1
	3H	16.6	17.7	17.1	18.2	18.7	20.2	21.3	20.7	21.8	22.4
	4H	17.0	18.0	17.6	18.6	19.2	21.4	22.4	21.9	22.9	23.5
	6H	17.3	18.2	17.9	18.7	19.4	22.6	23.5	23.2	24.1	24.7
	8H	17.4	18.2	17.9	18.8	19.4	23.2	24.1	23.8	24.6	25.2
	12H	17.4	18.1	18.0	18.7	19.4	23.9	24.7	24.5	25.3	25.9
8H	4H	17.8	18.6	18.4	19.2	19.8	21.5	22.4	22.1	22.9	23.6
	6H	18.3	19.0	18.9	19.6	20.2	22.9	23.6	23.5	24.2	24.8
	8H	18.4	19.0	19.0	19.7	20.3	23.7	24.3	24.3	24.9	25.6
	12H	18.5	19.1	19.1	19.7	20.4	24.5	25.1	25.1	25.7	26.4
12H	4H	18.0	18.7	18.6	19.3	20.0	21.5	22.3	22.1	22.9	23.5
	6H	18.6	19.2	19.2	19.8	20.5	23.0	23.6	23.6	24.2	24.8
	8H	18.8	19.4	19.4	20.0	20.7	23.7	24.3	24.4	24.9	25.6

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 475.991 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.)