



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-835-EM10W-DIM-UNV\_(EMER MODE).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] 06-29-2021

[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-L65-835-EM10W-DIM-UNV(EMER MODE)

[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	1420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
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	4966	4199	4191
55	4098	3593	3690
65	3375	3018	3108
75	2281	2480	2547
85	1338	2130	2088

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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	454.808	454.808	454.808	454.808	454.808
5	459.801	453.071	453.289	452.203	447.644
10	452.203	446.559	447.644	446.993	442.868
15	438.960	434.836	437.875	439.178	434.836
20	418.988	417.902	423.113	425.284	422.679
25	395.542	397.062	404.443	409.436	407.482
30	368.623	370.793	383.385	390.983	390.549
35	335.842	339.749	357.985	368.623	370.142
40	300.890	303.712	326.724	342.789	346.479
45	259.642	266.806	293.292	314.567	319.777
50	216.875	228.381	260.728	283.957	290.469
55	175.845	190.824	227.296	251.610	260.945
60	141.544	155.438	195.166	219.480	229.249
65	108.763	123.960	165.207	187.351	195.817
70	76.199	96.606	136.768	156.089	164.339
75	46.892	72.943	110.500	128.736	135.900
80	26.051	50.365	88.139	105.073	109.632
85	11.072	34.735	70.338	84.883	87.922
90	1.520	23.880	54.490	67.299	71.423
95	0.217	16.282	43.636	53.405	57.747
100	0.000	10.638	33.866	43.636	47.109
105	0.000	7.598	26.268	35.603	38.425
110	0.000	5.210	20.190	29.090	31.478
115	0.000	4.342	16.499	24.314	26.051
120	0.000	3.256	12.591	19.972	21.709
125	0.000	1.954	9.335	15.848	17.802
130	0.000	1.303	6.730	12.374	14.111
135	0.000	0.651	4.993	9.769	11.072
140	0.000	0.651	3.473	7.598	8.684
145	0.000	0.000	2.171	4.776	6.079
150	0.000	0.000	1.520	3.473	4.342
155	0.000	0.000	1.085	1.737	2.822
160	0.000	0.000	0.434	1.303	1.520
165	0.000	0.000	0.000	0.434	0.651
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-L65-835-EM10W-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	166.31	N.A.	11.70
0-30	352.08	N.A.	24.80
0-40	573.76	N.A.	40.40
0-60	997.45	N.A.	70.20
0-80	1261.16	N.A.	88.80
0-90	1327.44	N.A.	93.50
10-90	1284.38	N.A.	90.50
20-40	407.45	N.A.	28.70
20-50	632.07	N.A.	44.50
40-70	579.89	N.A.	40.80
60-80	263.71	N.A.	18.60
70-80	107.51	N.A.	7.60
80-90	66.28	N.A.	4.70
90-110	63.25	N.A.	4.50
90-120	77.75	N.A.	5.50
90-130	85.98	N.A.	6.10
90-150	91.86	N.A.	6.50
90-180	92.48	N.A.	6.50
110-180	29.22	N.A.	2.10
0-180	1419.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.06
10-20	123.25
20-30	185.77
30-40	221.68
40-50	224.62
50-60	199.07
60-70	156.20
70-80	107.51
80-90	66.28
90-100	39.46
100-110	23.79
110-120	14.50
120-130	8.23
130-140	4.16
140-150	1.72
150-160	0.54
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

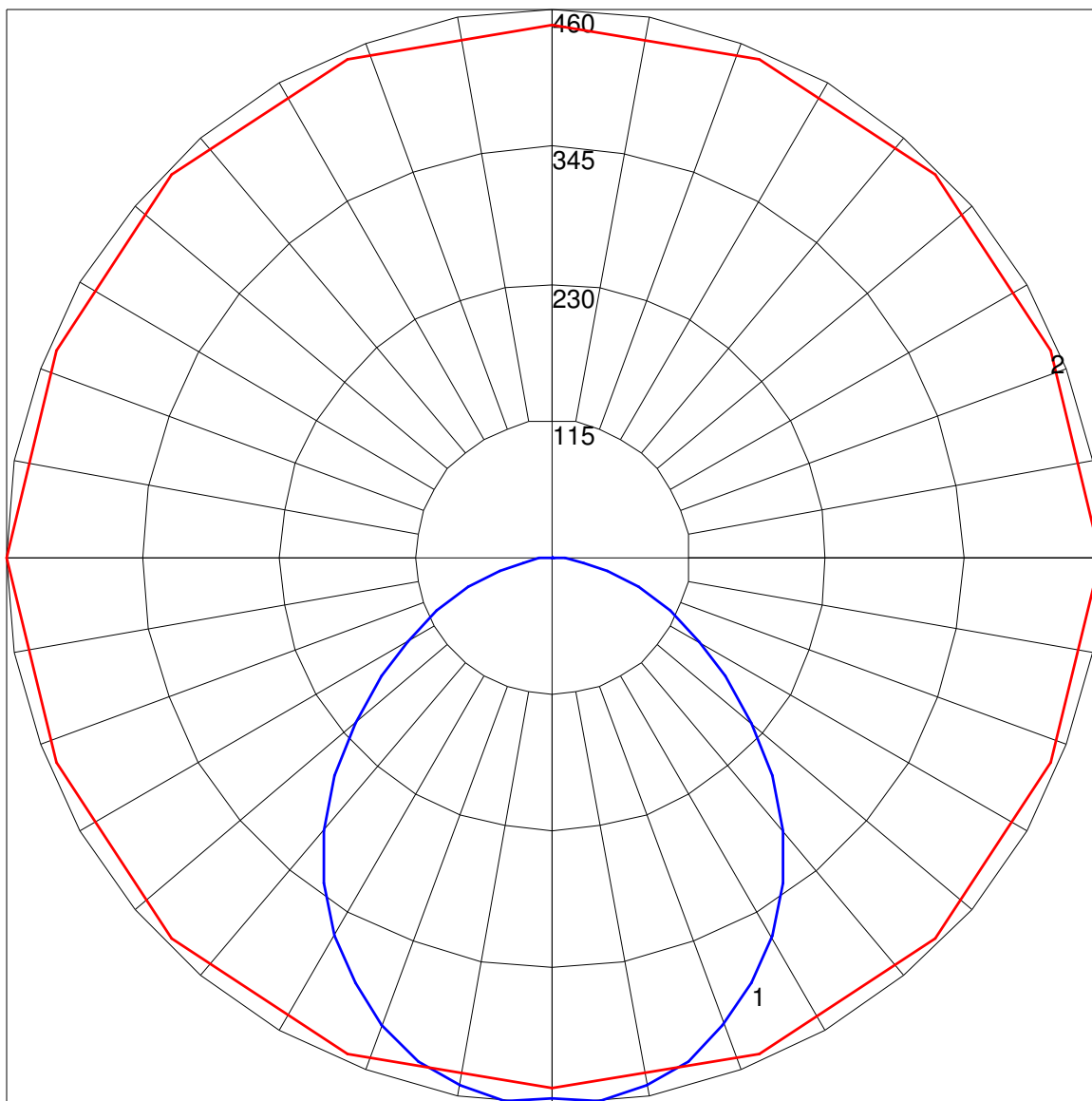
X=2H	Y=2H	14.0	15.5	14.4	15.9	16.4	17.4	18.9	17.8	19.3	19.8
	3H	15.2	16.5	15.6	17.0	17.5	19.6	20.9	20.0	21.4	21.9
	4H	15.5	16.8	16.0	17.3	17.8	20.6	21.9	21.1	22.4	22.9
	6H	15.7	16.9	16.2	17.4	17.9	21.6	22.8	22.2	23.3	23.9
	8H	15.7	16.8	16.2	17.4	17.9	22.2	23.3	22.7	23.8	24.4
	12H	15.7	16.8	16.2	17.3	17.9	22.7	23.8	23.3	24.3	24.9

### UGR Viewed Endwise

4H	2H	15.0	16.3	15.5	16.8	17.3	17.7	19.0	18.2	19.5	20.0
	3H	16.5	17.6	17.0	18.1	18.6	20.1	21.2	20.6	21.7	22.3
	4H	16.9	17.9	17.5	18.5	19.1	21.3	22.3	21.8	22.8	23.4
	6H	17.2	18.1	17.8	18.6	19.3	22.5	23.4	23.1	24.0	24.6
	8H	17.3	18.1	17.8	18.7	19.3	23.1	24.0	23.7	24.5	25.2
	12H	17.3	18.0	17.9	18.6	19.3	23.8	24.6	24.4	25.2	25.8
8H	4H	17.7	18.5	18.3	19.1	19.7	21.5	22.3	22.0	22.8	23.5
	6H	18.2	18.9	18.8	19.5	20.1	22.8	23.5	23.4	24.1	24.7
	8H	18.3	18.9	18.9	19.6	20.2	23.6	24.2	24.2	24.8	25.5
	12H	18.4	19.0	19.0	19.6	20.3	24.4	25.0	25.0	25.6	26.3
12H	4H	17.9	18.6	18.5	19.2	19.9	21.4	22.2	22.0	22.8	23.4
	6H	18.5	19.1	19.1	19.7	20.4	22.9	23.5	23.5	24.1	24.8
	8H	18.7	19.3	19.3	19.9	20.6	23.7	24.2	24.3	24.8	25.5

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 459.801 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.)