



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L100-835-(L83)-EM10WLP-DIM-UNV\_(EMERGENCY 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

[ISSUEDATE] 06-16-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L100-835-(L83)-EM10WLP-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	1580
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
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)	7.44 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	2800	2352	2331
55	2324	2017	2052
65	1932	1699	1729
75	1331	1401	1417
85	847	1211	1162

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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	506.054	506.054	506.054	506.054	506.054
5	511.610	504.122	504.363	503.156	498.083
10	503.156	496.875	498.083	497.358	492.769
15	488.421	483.831	487.213	488.662	483.831
20	466.198	464.990	470.787	473.203	470.304
25	440.110	441.801	450.014	455.570	453.396
30	410.158	412.573	426.583	435.038	434.554
35	373.683	378.031	398.321	410.158	411.848
40	334.793	337.933	363.538	381.413	385.519
45	288.898	296.869	326.339	350.011	355.808
50	241.312	254.114	290.106	315.952	323.198
55	195.658	212.325	252.906	279.960	290.347
60	157.493	172.952	217.156	244.210	255.080
65	121.018	137.927	183.822	208.461	217.881
70	84.785	107.491	152.179	173.677	182.856
75	52.176	81.162	122.951	143.241	151.212
80	28.986	56.040	98.071	116.912	121.984
85	12.319	38.649	78.263	94.447	97.829
90	1.691	26.571	60.630	74.882	79.471
95	0.242	18.116	48.552	59.422	64.253
100	0.000	11.836	37.682	48.552	52.417
105	0.000	8.454	29.228	39.615	42.755
110	0.000	5.797	22.464	32.368	35.025
115	0.000	4.831	18.358	27.054	28.986
120	0.000	3.623	14.010	22.223	24.155
125	0.000	2.174	10.387	17.633	19.807
130	0.000	1.449	7.488	13.769	15.701
135	0.000	0.725	5.556	10.870	12.319
140	0.000	0.725	3.865	8.454	9.662
145	0.000	0.000	2.416	5.314	6.763
150	0.000	0.000	1.691	3.865	4.831
155	0.000	0.000	1.208	1.932	3.140
160	0.000	0.000	0.483	1.449	1.691
165	0.000	0.000	0.000	0.483	0.725
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-8-L100-835-(L83)-EM10WLP-DIM-UNV\_(EMERGENCY MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	185.05	N.A.	11.70
0-30	391.75	N.A.	24.80
0-40	638.41	N.A.	40.40
0-60	1109.84	N.A.	70.20
0-80	1403.26	N.A.	88.80
0-90	1477.01	N.A.	93.50
10-90	1429.1	N.A.	90.50
20-40	453.36	N.A.	28.70
20-50	703.29	N.A.	44.50
40-70	645.23	N.A.	40.80
60-80	293.43	N.A.	18.60
70-80	119.62	N.A.	7.60
80-90	73.75	N.A.	4.70
90-110	70.38	N.A.	4.50
90-120	86.51	N.A.	5.50
90-130	95.67	N.A.	6.10
90-150	102.21	N.A.	6.50
90-180	102.90	N.A.	6.50
110-180	32.52	N.A.	2.10
0-180	1579.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.91
10-20	137.14
20-30	206.70
30-40	246.66
40-50	249.93
50-60	221.50
60-70	173.80
70-80	119.62
80-90	73.75
90-100	43.91
100-110	26.47
110-120	16.14
120-130	9.16
130-140	4.63
140-150	1.91
150-160	0.60
160-170	0.09
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	12.0	13.5	12.4	13.9	14.4	15.4	16.9	15.9	17.4	17.8
	3H	13.2	14.5	13.6	15.0	15.5	17.6	19.0	18.1	19.4	20.0
	4H	13.5	14.8	14.0	15.3	15.8	18.7	20.0	19.2	20.4	21.0
	6H	13.7	14.9	14.2	15.4	15.9	19.7	20.9	20.2	21.4	22.0
	8H	13.7	14.8	14.2	15.4	15.9	20.3	21.4	20.8	21.9	22.5
	12H	13.7	14.8	14.2	15.3	15.9	20.9	22.0	21.4	22.5	23.1

### UGR Viewed Endwise

4H	2H	13.0	14.3	13.6	14.8	15.4	15.7	17.0	16.2	17.5	18.0
	3H	14.5	15.6	15.0	16.1	16.7	18.2	19.3	18.7	19.8	20.3
	4H	14.9	15.9	15.5	16.5	17.1	19.4	20.4	19.9	20.9	21.5
	6H	15.2	16.1	15.8	16.7	17.3	20.6	21.5	21.2	22.1	22.7
	8H	15.3	16.1	15.8	16.7	17.3	21.3	22.1	21.8	22.6	23.3
	12H	15.3	16.1	15.9	16.6	17.3	22.0	22.7	22.6	23.3	23.9

8H	4H	15.7	16.5	16.3	17.1	17.7	19.5	20.3	20.1	20.9	21.5
	6H	16.2	16.9	16.8	17.5	18.1	20.9	21.6	21.5	22.2	22.8
	8H	16.3	17.0	16.9	17.6	18.2	21.7	22.3	22.3	22.9	23.6
	12H	16.4	17.0	17.0	17.6	18.3	22.6	23.1	23.2	23.7	24.4

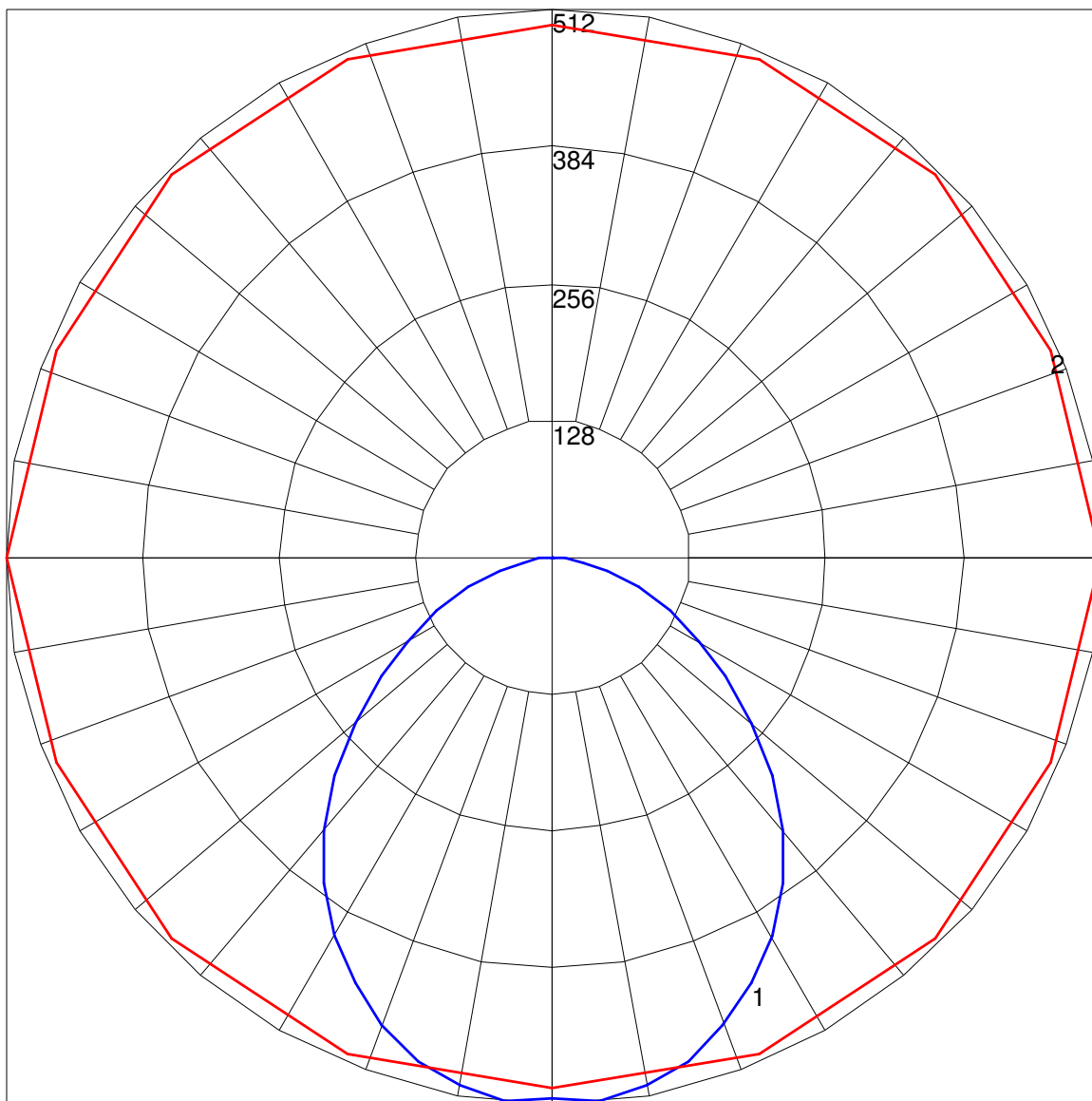
12H	4H	15.9	16.7	16.5	17.3	17.9	19.5	20.3	20.1	20.9	21.5
	6H	16.5	17.1	17.1	17.7	18.4	21.0	21.6	21.6	22.2	22.8
	8H	16.7	17.3	17.4	17.9	18.6	21.8	22.3	22.4	22.9	23.6

Maximum UGR = 24.4

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## POLAR GRAPH



Maximum Candela = 511.61 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.)