



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-3-L40-835-(L38)-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] 09-26-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-3-L40-835-(L38)-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	3711
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	23.8
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)	2.80 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	17103	14522	14565
55	14064	12411	12822
65	11514	10407	10802
75	7686	8531	8851
85	4307	7299	7257

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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	1188.587	1188.587	1188.587	1188.587	1188.587
5	1201.635	1184.048	1184.615	1181.778	1169.864
10	1181.778	1167.027	1169.864	1168.162	1157.383
15	1147.170	1136.391	1144.334	1147.738	1136.391
20	1094.975	1092.138	1105.754	1111.428	1104.620
25	1033.702	1037.673	1056.963	1070.012	1064.905
30	963.351	969.024	1001.930	1021.787	1020.653
35	877.682	887.894	935.551	963.351	967.322
40	786.339	793.715	853.853	895.837	905.482
45	678.544	697.266	766.482	822.082	835.698
50	566.777	596.846	681.381	742.087	759.107
55	459.549	498.696	594.010	657.552	681.948
60	369.909	406.219	510.043	573.585	599.116
65	284.240	323.954	431.749	489.618	511.745
70	199.138	252.468	357.427	407.921	429.480
75	122.546	190.628	288.778	336.435	355.158
80	68.081	131.624	230.342	274.595	286.509
85	28.935	90.775	183.820	221.832	229.774
90	3.971	62.408	142.403	175.877	186.656
95	0.567	42.551	114.036	139.567	150.914
100	0.000	27.800	88.506	114.036	123.114
105	0.000	19.857	68.649	93.044	100.420
110	0.000	13.616	52.763	76.024	82.265
115	0.000	11.347	43.118	63.543	68.081
120	0.000	8.510	32.906	52.196	56.734
125	0.000	5.106	24.396	41.416	46.522
130	0.000	3.404	17.588	32.339	36.877
135	0.000	1.702	13.049	25.530	28.935
140	0.000	1.702	9.078	19.857	22.694
145	0.000	0.000	5.673	12.482	15.886
150	0.000	0.000	3.971	9.078	11.347
155	0.000	0.000	2.837	4.539	7.375
160	0.000	0.000	1.135	3.404	3.971
165	0.000	0.000	0.000	1.135	1.702
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	434.63	N.A.	11.70
0-30	920.12	N.A.	24.80
0-40	1499.46	N.A.	40.40
0-60	2606.71	N.A.	70.20
0-80	3295.89	N.A.	88.80
0-90	3469.1	N.A.	93.50
10-90	3356.58	N.A.	90.50
20-40	1064.83	N.A.	28.70
20-50	1651.84	N.A.	44.50
40-70	1515.47	N.A.	40.80
60-80	689.18	N.A.	18.60
70-80	280.96	N.A.	7.60
80-90	173.22	N.A.	4.70
90-110	165.30	N.A.	4.50
90-120	203.20	N.A.	5.50
90-130	224.71	N.A.	6.10
90-150	240.07	N.A.	6.50
90-180	241.68	N.A.	6.50
110-180	76.38	N.A.	2.10
0-180	3710.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.53
10-20	322.11
20-30	485.49
30-40	579.34
40-50	587.01
50-60	520.24
60-70	408.22
70-80	280.96
80-90	173.22
90-100	103.13
100-110	62.17
110-120	37.90
120-130	21.51
130-140	10.87
140-150	4.49
150-160	1.40
160-170	0.20
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

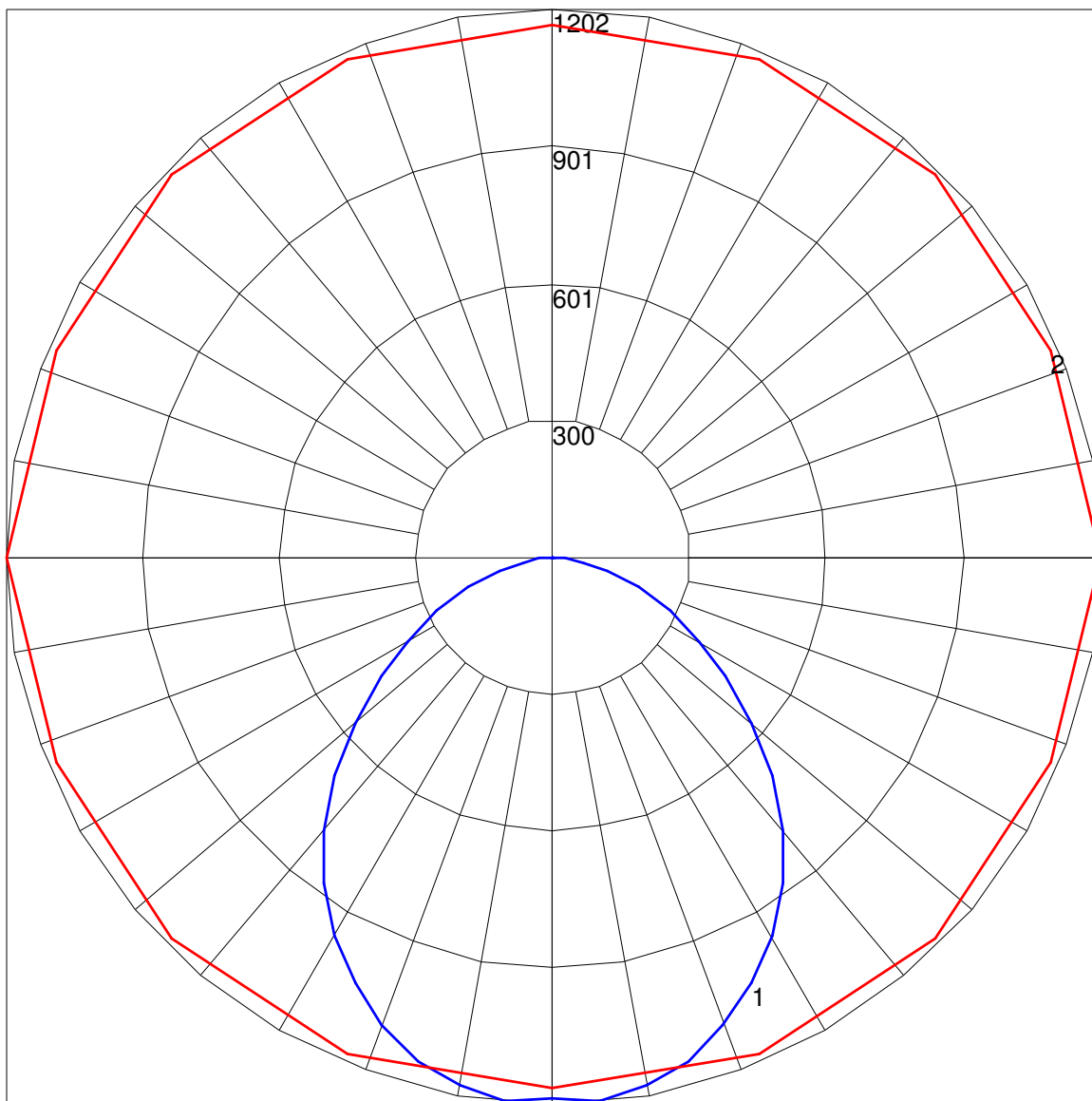
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**UGR TABLE - CORRECTED**

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	18.3	19.8	18.8	20.3	20.8	21.7	23.2	22.2	23.7	24.1
	3H	19.5	20.9	20.0	21.4	21.9	23.9	25.3	24.4	25.7	26.3
	4H	19.9	21.2	20.4	21.6	22.2	24.9	26.2	25.4	26.7	27.2
	6H	20.1	21.2	20.6	21.7	22.3	26.0	27.1	26.5	27.6	28.2
	8H	20.1	21.2	20.6	21.7	22.3	26.5	27.6	27.0	28.1	28.7
	12H	20.1	21.2	20.6	21.7	22.3	27.0	28.1	27.6	28.6	29.2
4H	2H	19.4	20.7	19.9	21.2	21.7	22.0	23.3	22.5	23.8	24.3
	3H	20.8	21.9	21.4	22.5	23.0	24.4	25.5	25.0	26.1	26.6
	4H	21.3	22.3	21.8	22.8	23.4	25.6	26.6	26.2	27.2	27.8
	6H	21.6	22.5	22.1	23.0	23.6	26.8	27.7	27.4	28.3	28.9
	8H	21.7	22.5	22.2	23.0	23.7	27.5	28.3	28.0	28.8	29.5
	12H	21.7	22.4	22.3	23.0	23.6	28.1	28.9	28.7	29.5	30.1
8H	4H	22.1	22.9	22.6	23.5	24.1	25.8	26.6	26.4	27.2	27.8
	6H	22.5	23.2	23.1	23.8	24.5	27.1	27.8	27.7	28.4	29.1
	8H	22.7	23.3	23.3	23.9	24.6	27.9	28.5	28.5	29.1	29.8
	12H	22.8	23.3	23.4	23.9	24.6	28.7	29.3	29.3	29.9	30.6
12H	4H	22.3	23.0	22.9	23.6	24.2	25.8	26.5	26.4	27.1	27.7
	6H	22.9	23.5	23.5	24.1	24.8	27.2	27.8	27.8	28.4	29.1
	8H	23.1	23.7	23.7	24.3	25.0	28.0	28.5	28.6	29.1	29.8

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 1201.635 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.)