

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L100-RGB835-DMX-UNV WHITE ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 30 Nov, 2023

[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] 75S-8-L100-RGB835-DMX-UNV white only

[SEARCH\_SOURCE TYPE] 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	9887
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	89.2
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	17523	14721	14589
55	14545	12623	12843
65	12091	10631	10820
75	8332	8767	8865
85	5300	7577	7269

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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	3167.012	3167.012	3167.012	3167.012	3167.012
5	3201.781	3154.918	3156.430	3148.871	3117.125
10	3148.871	3109.567	3117.125	3112.590	3083.868
15	3056.657	3027.935	3049.099	3058.169	3027.935
20	2917.581	2910.023	2946.303	2961.420	2943.280
25	2754.317	2764.899	2816.297	2851.066	2837.461
30	2566.867	2581.984	2669.662	2722.572	2719.548
35	2338.600	2365.811	2492.793	2566.867	2577.449
40	2095.216	2114.868	2275.109	2386.974	2412.673
45	1807.993	1857.879	2042.307	2190.453	2226.734
50	1510.188	1590.308	1815.552	1977.304	2022.655
55	1224.477	1328.784	1582.750	1752.060	1817.063
60	985.628	1082.377	1359.018	1528.329	1596.355
65	757.362	863.181	1150.404	1304.597	1363.553
70	530.607	672.707	952.371	1086.912	1144.357
75	326.527	507.931	769.455	896.438	946.324
80	181.404	350.714	613.750	731.663	763.409
85	77.097	241.872	489.791	591.075	612.239
90	10.582	166.287	379.437	468.627	497.349
95	1.512	113.378	303.852	371.878	402.112
100	0.000	74.073	235.825	303.852	328.039
105	0.000	52.910	182.916	247.919	267.571
110	0.000	36.281	140.588	202.568	219.197
115	0.000	30.234	114.889	169.310	181.404
120	0.000	22.676	87.679	139.076	151.170
125	0.000	13.605	65.003	110.354	123.959
130	0.000	9.070	46.863	86.167	98.261
135	0.000	4.535	34.769	68.027	77.097
140	0.000	4.535	24.187	52.910	60.468
145	0.000	0.000	15.117	33.257	42.328
150	0.000	0.000	10.582	24.187	30.234
155	0.000	0.000	7.559	12.094	19.652
160	0.000	0.000	3.023	9.070	10.582
165	0.000	0.000	0.000	3.023	4.535
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 : 75S-8-L100-RGB835-DMX-UNV WHITE ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1158.09	N.A.	11.70
0-30	2451.68	N.A.	24.80
0-40	3995.34	N.A.	40.40
0-60	6945.63	N.A.	70.20
0-80	8781.96	N.A.	88.80
0-90	9243.49	N.A.	93.50
10-90	8943.66	N.A.	90.50
20-40	2837.25	N.A.	28.70
20-50	4401.36	N.A.	44.50
40-70	4037.99	N.A.	40.80
60-80	1836.33	N.A.	18.60
70-80	748.63	N.A.	7.60
80-90	461.54	N.A.	4.70
90-110	440.44	N.A.	4.50
90-120	541.42	N.A.	5.50
90-130	598.74	N.A.	6.10
90-150	639.66	N.A.	6.50
90-180	643.95	N.A.	6.50
110-180	203.50	N.A.	2.10
0-180	9887.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	299.83
10-20	858.26
20-30	1293.59
30-40	1543.66
40-50	1564.11
50-60	1386.19
60-70	1087.7
70-80	748.63
80-90	461.54
90-100	274.80
100-110	165.65
110-120	100.98
120-130	57.32
130-140	28.96
140-150	11.96
150-160	3.74
160-170	0.55
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	71	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

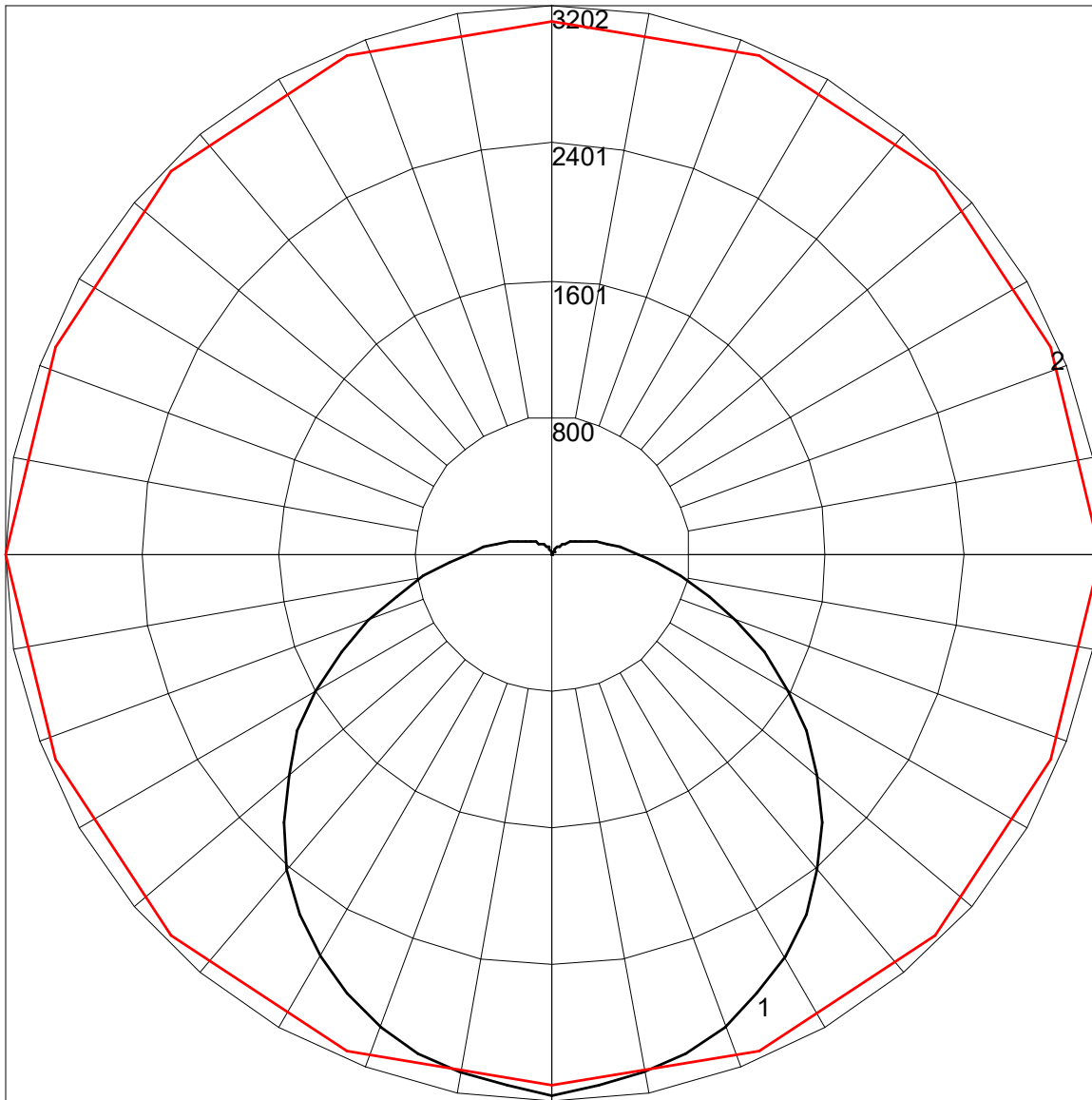
X=2H	Y=2H	18.4	19.9	18.8	20.3	20.8	21.8	23.3	22.3	23.8	24.2
	3H	19.6	20.9	20.0	21.4	21.9	24.0	25.4	24.5	25.9	26.4
	4H	19.9	21.2	20.4	21.7	22.2	25.1	26.4	25.6	26.8	27.4
	6H	20.1	21.3	20.6	21.8	22.3	26.1	27.3	26.7	27.8	28.4
	8H	20.1	21.2	20.6	21.8	22.3	26.7	27.8	27.2	28.3	28.9
	12H	20.1	21.2	20.6	21.7	22.3	27.3	28.4	27.8	28.9	29.5

### UGR Viewed Endwise

4H	2H	19.4	20.7	20.0	21.2	21.8	22.1	23.4	22.6	23.9	24.4
	3H	20.9	22.0	21.4	22.5	23.1	24.6	25.7	25.1	26.2	26.7
	4H	21.3	22.3	21.9	22.9	23.5	25.8	26.8	26.3	27.3	27.9
	6H	21.6	22.5	22.2	23.1	23.7	27.0	27.9	27.6	28.5	29.1
	8H	21.7	22.5	22.3	23.1	23.7	27.7	28.5	28.2	29.0	29.7
	12H	21.7	22.5	22.3	23.1	23.7	28.4	29.1	29.0	29.7	30.3
8H	4H	22.1	22.9	22.7	23.5	24.1	25.9	26.7	26.5	27.3	27.9
	6H	22.6	23.3	23.2	23.9	24.5	27.3	28.0	27.9	28.6	29.2
	8H	22.7	23.4	23.4	24.0	24.6	28.1	28.7	28.7	29.3	30.0
	12H	22.8	23.4	23.4	24.0	24.7	29.0	29.5	29.6	30.1	30.8
12H	4H	22.3	23.1	22.9	23.7	24.3	25.9	26.7	26.5	27.3	27.9
	6H	22.9	23.5	23.5	24.1	24.8	27.4	28.0	28.0	28.6	29.2
	8H	23.2	23.7	23.8	24.3	25.0	28.2	28.7	28.8	29.3	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 3201.781 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)