



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-3-L40-835-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 1-SEP-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-3-L40-835-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	3885
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.80 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18476	14956	14197
55	15618	12523	12722
65	12205	10684	11556
75	8320	8712	10253
85	3572	7359	8988

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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>
<b>0</b>	1310.824	1310.824	1310.824	1310.824	1310.824
<b>5</b>	1322.099	1305.483	1304.890	1301.923	1286.494
<b>10</b>	1299.549	1284.714	1285.901	1282.341	1268.099
<b>15</b>	1263.352	1249.110	1252.671	1249.110	1237.242
<b>20</b>	1202.825	1192.144	1202.825	1197.484	1185.023
<b>25</b>	1128.056	1123.902	1133.397	1132.803	1114.408
<b>30</b>	1045.573	1047.354	1058.035	1058.035	1035.486
<b>35</b>	944.695	958.937	964.277	966.058	942.915
<b>40</b>	834.916	856.278	851.531	861.026	849.158
<b>45</b>	727.510	746.499	745.312	762.521	759.554
<b>50</b>	617.731	634.940	648.588	677.665	683.599
<b>55</b>	504.985	526.347	556.611	599.929	619.511
<b>60</b>	398.766	424.875	476.501	529.908	555.424
<b>65</b>	296.701	338.239	402.920	464.040	490.150
<b>70</b>	203.537	258.130	327.558	394.019	424.875
<b>75</b>	129.362	181.581	259.910	326.371	357.228
<b>80</b>	70.615	121.054	204.130	264.657	293.140
<b>85</b>	22.549	74.175	154.878	208.877	235.580
<b>90</b>	0.000	48.066	118.087	168.526	186.921
<b>95</b>	0.000	43.912	110.373	154.284	164.966
<b>100</b>	0.000	41.538	102.658	140.636	150.131
<b>105</b>	0.000	37.978	96.131	129.955	139.449
<b>110</b>	0.000	35.604	89.604	121.647	131.142
<b>115</b>	0.000	32.637	81.889	113.933	122.834
<b>120</b>	0.000	27.890	73.582	103.252	113.933
<b>125</b>	0.000	23.143	66.461	94.351	103.845
<b>130</b>	0.000	18.989	57.560	84.263	90.790
<b>135</b>	0.000	17.209	46.285	72.988	79.516
<b>140</b>	0.000	14.242	36.197	61.120	67.648
<b>145</b>	0.000	11.275	27.890	47.472	54.000
<b>150</b>	0.000	8.308	21.362	36.197	41.538
<b>155</b>	0.000	6.527	17.209	26.110	30.263
<b>160</b>	0.000	0.000	12.461	18.989	21.362
<b>165</b>	0.000	0.000	8.308	13.648	14.835
<b>170</b>	0.000	0.000	0.000	8.308	8.901
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	475.86	N.A.	12.20
0-30	995.38	N.A.	25.60
0-40	1593.41	N.A.	41.00
0-60	2677.48	N.A.	68.90
0-80	3343.61	N.A.	86.10
0-90	3502.67	N.A.	90.20
10-90	3378.82	N.A.	87.00
20-40	1117.55	N.A.	28.80
20-50	1697.59	N.A.	43.70
40-70	1480.32	N.A.	38.10
60-80	666.13	N.A.	17.10
70-80	269.89	N.A.	6.90
80-90	159.06	N.A.	4.10
90-110	195.72	N.A.	5.00
90-120	267.37	N.A.	6.90
90-130	320.15	N.A.	8.20
90-150	372.53	N.A.	9.60
90-180	382.35	N.A.	9.80
110-180	186.63	N.A.	4.80
0-180	3885.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.85
10-20	352.00
20-30	519.52
30-40	598.03
40-50	580.04
50-60	504.04
60-70	396.24
70-80	269.89
80-90	159.06
90-100	107.09
100-110	88.63
110-120	71.65
120-130	52.78
130-140	34.21
140-150	18.18
150-160	7.61
160-170	2.10
170-180	0.11

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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	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	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	18.8	20.2	19.3	20.7	21.2	21.0	22.4	21.5	22.9	23.5
	3H	19.9	21.2	20.5	21.7	22.3	23.4	24.7	23.9	25.2	25.8
	4H	20.2	21.5	20.8	22.0	22.6	24.5	25.7	25.1	26.3	26.9
	6H	20.4	21.5	21.0	22.1	22.7	25.6	26.8	26.2	27.3	27.9
	8H	20.4	21.5	21.0	22.1	22.7	26.2	27.3	26.8	27.9	28.5
	12H	20.4	21.5	21.0	22.0	22.7	26.8	27.8	27.4	28.4	29.1

UGR Viewed Endwise

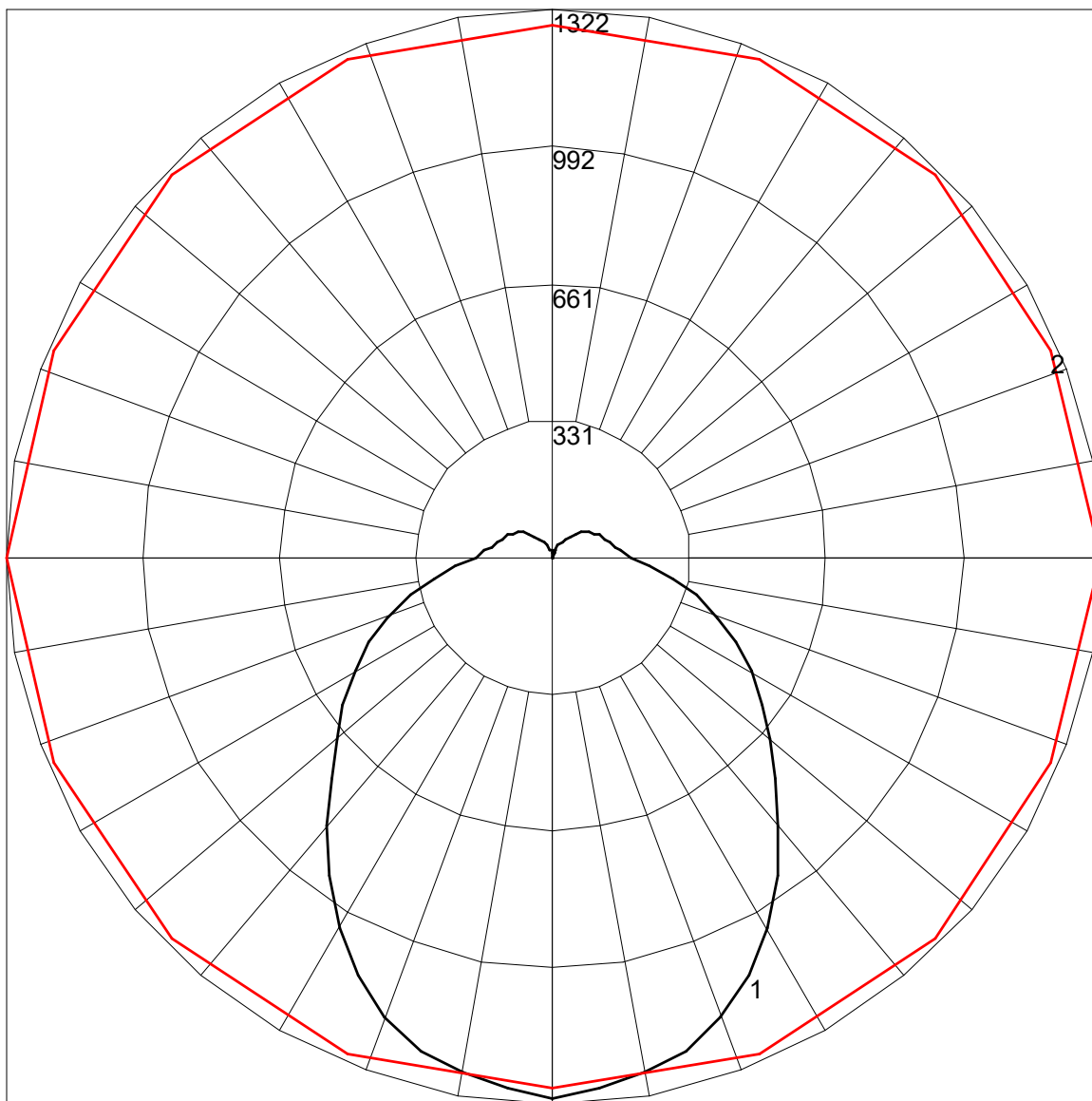
4H	2H	19.6	20.8	20.1	21.3	21.9	21.4	22.6	21.9	23.1	23.7
	3H	21.0	22.0	21.6	22.6	23.2	23.9	25.0	24.5	25.6	26.2
	4H	21.4	22.4	22.0	23.0	23.6	25.2	26.2	25.8	26.8	27.4
	6H	21.7	22.5	22.3	23.1	23.8	26.5	27.4	27.1	28.0	28.6
	8H	21.8	22.5	22.4	23.1	23.8	27.2	28.0	27.8	28.6	29.3
	12H	21.8	22.5	22.4	23.1	23.8	27.9	28.6	28.6	29.3	30.0

8H	4H	22.1	22.8	22.7	23.5	24.1	25.4	26.2	26.0	26.8	27.4
	6H	22.5	23.2	23.2	23.8	24.5	26.8	27.5	27.5	28.1	28.8
	8H	22.6	23.2	23.3	23.9	24.6	27.6	28.2	28.3	28.9	29.6
	12H	22.7	23.2	23.3	23.9	24.6	28.5	29.0	29.2	29.7	30.5

12H	4H	22.2	22.9	22.9	23.6	24.3	25.4	26.1	26.0	26.7	27.4
	6H	22.8	23.4	23.5	24.0	24.8	26.9	27.5	27.5	28.1	28.8
	8H	23.0	23.5	23.6	24.2	24.9	27.7	28.2	28.3	28.9	29.6

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 1322.099 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.)