



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-(L32)-WG-75-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] 11-29-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-835-(L32)-WG-75-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[\_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	3487
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	26
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)	3.72 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	12557	10133	9580
55	10646	8494	8585
65	8360	7258	7798
75	5757	5933	6919
85	2572	5033	6065

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 75S-4-L50-835-(L32)-WG-75-DIM-UNV\_.IES****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>	1176.536	1176.536	1176.536	1176.536	1176.536
<b>5</b>	1186.656	1171.743	1171.210	1168.547	1154.699
<b>10</b>	1166.417	1153.102	1154.167	1150.971	1138.188
<b>15</b>	1133.928	1121.145	1124.341	1121.145	1110.493
<b>20</b>	1079.601	1070.014	1079.601	1074.808	1063.623
<b>25</b>	1012.492	1008.764	1017.286	1016.753	1000.242
<b>30</b>	938.460	940.057	949.644	949.644	929.405
<b>35</b>	847.916	860.698	865.492	867.090	846.318
<b>40</b>	749.383	768.557	764.296	772.818	762.166
<b>45</b>	652.980	670.024	668.959	684.404	681.741
<b>50</b>	554.447	569.893	582.143	608.241	613.567
<b>55</b>	453.251	472.425	499.589	538.469	556.045
<b>60</b>	357.914	381.349	427.686	475.621	498.523
<b>65</b>	266.305	303.588	361.642	416.501	439.936
<b>70</b>	182.685	231.686	294.001	353.653	381.349
<b>75</b>	116.109	162.979	233.283	292.936	320.631
<b>80</b>	63.381	108.653	183.218	237.544	263.110
<b>85</b>	20.239	66.576	139.011	187.479	211.446
<b>90</b>	0.000	43.141	105.989	151.261	167.772
<b>95</b>	0.000	39.413	99.066	138.479	148.066
<b>100</b>	0.000	37.283	92.142	126.229	134.750
<b>105</b>	0.000	34.087	86.283	116.642	125.163
<b>110</b>	0.000	31.957	80.424	109.185	117.707
<b>115</b>	0.000	29.294	73.500	102.261	110.250
<b>120</b>	0.000	25.033	66.044	92.674	102.261
<b>125</b>	0.000	20.772	59.652	84.685	93.207
<b>130</b>	0.000	17.044	51.663	75.631	81.489
<b>135</b>	0.000	15.446	41.544	65.511	71.370
<b>140</b>	0.000	12.783	32.489	54.859	60.718
<b>145</b>	0.000	10.120	25.033	42.609	48.468
<b>150</b>	0.000	7.457	19.174	32.489	37.283
<b>155</b>	0.000	5.859	15.446	23.435	27.163
<b>160</b>	0.000	0.000	11.185	17.044	19.174
<b>165</b>	0.000	0.000	7.457	12.250	13.315
<b>170</b>	0.000	0.000	0.000	7.457	7.989
<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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Zone	Lumens	%Lamp	%Fixt
0-20	427.11	N.A.	12.20
0-30	893.41	N.A.	25.60
0-40	1430.17	N.A.	41.00
0-60	2403.19	N.A.	68.90
0-80	3001.07	N.A.	86.10
0-90	3143.84	N.A.	90.20
10-90	3032.67	N.A.	87.00
20-40	1003.06	N.A.	28.80
20-50	1523.68	N.A.	43.70
40-70	1328.67	N.A.	38.10
60-80	597.89	N.A.	17.10
70-80	242.24	N.A.	6.90
80-90	142.76	N.A.	4.10
90-110	175.67	N.A.	5.00
90-120	239.98	N.A.	6.90
90-130	287.35	N.A.	8.20
90-150	334.37	N.A.	9.60
90-180	343.18	N.A.	9.80
110-180	167.51	N.A.	4.80
0-180	3487.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.17
10-20	315.94
20-30	466.30
30-40	536.76
40-50	520.62
50-60	452.40
60-70	355.65
70-80	242.24
80-90	142.76
90-100	96.12
100-110	79.55
110-120	64.31
120-130	47.38
130-140	30.70
140-150	16.31
150-160	6.83
160-170	1.88
170-180	0.10

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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

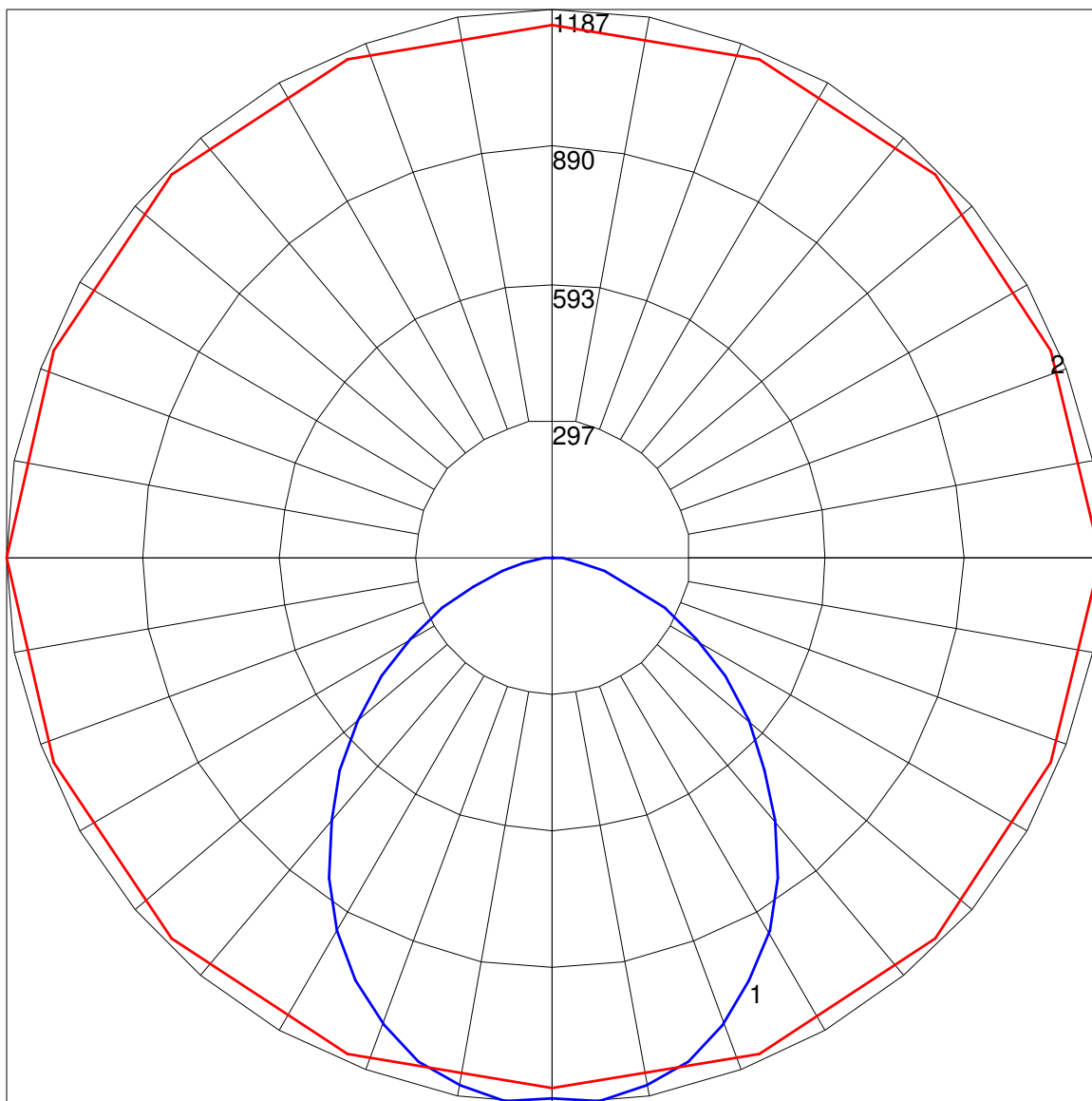
X=2H	Y=2H	17.4	18.8	17.9	19.3	19.9	19.6	21.1	20.2	21.6	22.1
	3H	18.6	19.8	19.1	20.4	20.9	22.0	23.3	22.6	23.8	24.4
	4H	18.9	20.1	19.4	20.6	21.2	23.2	24.4	23.7	24.9	25.5
	6H	19.0	20.2	19.6	20.7	21.3	24.3	25.4	24.9	26.0	26.6
	8H	19.0	20.1	19.6	20.7	21.3	24.9	26.0	25.5	26.5	27.2
	12H	19.0	20.1	19.6	20.6	21.3	25.5	26.5	26.1	27.1	27.8

### UGR Viewed Endwise

4H	2H	18.2	19.4	18.7	19.9	20.6	20.0	21.2	20.5	21.7	22.4
	3H	19.6	20.6	20.2	21.2	21.9	22.6	23.6	23.2	24.2	24.8
	4H	20.1	21.0	20.6	21.6	22.2	23.9	24.8	24.5	25.4	26.1
	6H	20.3	21.1	20.9	21.8	22.4	25.2	26.0	25.8	26.6	27.3
	8H	20.4	21.1	21.0	21.8	22.4	25.9	26.7	26.5	27.3	28.0
	12H	20.4	21.1	21.0	21.7	22.4	26.6	27.3	27.2	28.0	28.7
8H	4H	20.7	21.5	21.3	22.1	22.8	24.0	24.8	24.6	25.4	26.1
	6H	21.1	21.8	21.8	22.4	23.1	25.5	26.2	26.2	26.8	27.5
	8H	21.3	21.8	21.9	22.5	23.2	26.3	26.9	27.0	27.6	28.3
	12H	21.3	21.8	22.0	22.5	23.3	27.2	27.7	27.9	28.4	29.2
12H	4H	20.9	21.6	21.5	22.2	22.9	24.0	24.7	24.6	25.4	26.1
	6H	21.4	22.0	22.1	22.6	23.4	25.5	26.1	26.2	26.7	27.5
	8H	21.6	22.1	22.3	22.8	23.6	26.4	26.9	27.0	27.6	28.3

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 1186.656 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.)