



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-940-(L48)-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] 13-MAR-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56 LED 22"ARRAYS SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-940-(L48)-DIM-UNV

[LAMPCAT] HLM 90 CRI 4000K 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	4054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	34
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	14599	11781	11138
55	12377	9875	9981
65	9719	8439	9066
75	6693	6898	8044
85	2990	5851	7051

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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>	1367.846	1367.846	1367.846	1367.846	1367.846
<b>5</b>	1379.611	1362.273	1361.654	1358.557	1342.458
<b>10</b>	1356.081	1340.600	1341.839	1338.123	1323.262
<b>15</b>	1318.309	1303.447	1307.163	1303.447	1291.063
<b>20</b>	1255.149	1244.003	1255.149	1249.576	1236.572
<b>25</b>	1177.128	1172.793	1182.700	1182.081	1162.886
<b>30</b>	1091.057	1092.914	1104.060	1104.060	1080.530
<b>35</b>	985.790	1000.651	1006.224	1008.082	983.932
<b>40</b>	871.235	893.527	888.573	898.481	886.097
<b>45</b>	759.157	778.972	777.734	795.691	792.595
<b>50</b>	644.603	662.560	676.802	707.143	713.336
<b>55</b>	526.952	549.244	580.824	626.026	646.460
<b>60</b>	416.112	443.358	497.230	552.959	579.585
<b>65</b>	309.607	352.952	420.447	484.226	511.472
<b>70</b>	212.391	269.358	341.807	411.159	443.358
<b>75</b>	134.989	189.480	271.216	340.568	372.767
<b>80</b>	73.687	126.320	213.010	276.170	305.892
<b>85</b>	23.530	77.402	161.615	217.964	245.828
<b>90</b>	0.000	50.156	123.224	175.857	195.053
<b>95</b>	0.000	45.822	115.174	160.996	172.142
<b>100</b>	0.000	43.345	107.124	146.754	156.661
<b>105</b>	0.000	39.630	100.313	135.608	145.515
<b>110</b>	0.000	37.153	93.501	126.939	136.846
<b>115</b>	0.000	34.057	85.452	118.889	128.177
<b>120</b>	0.000	29.103	76.783	107.743	118.889
<b>125</b>	0.000	24.149	69.352	98.455	108.363
<b>130</b>	0.000	19.815	60.064	87.929	94.740
<b>135</b>	0.000	17.957	48.299	76.163	82.975
<b>140</b>	0.000	14.861	37.772	63.779	70.590
<b>145</b>	0.000	11.765	29.103	49.537	56.349
<b>150</b>	0.000	8.669	22.292	37.772	43.345
<b>155</b>	0.000	6.811	17.957	27.245	31.580
<b>160</b>	0.000	0.000	13.004	19.815	22.292
<b>165</b>	0.000	0.000	8.669	14.242	15.480
<b>170</b>	0.000	0.000	0.000	8.669	9.288
<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	496.56	N.A.	12.20
0-30	1038.68	N.A.	25.60
0-40	1662.72	N.A.	41.00
0-60	2793.95	N.A.	68.90
0-80	3489.06	N.A.	86.10
0-90	3655.04	N.A.	90.20
10-90	3525.8	N.A.	87.00
20-40	1166.16	N.A.	28.80
20-50	1771.43	N.A.	43.70
40-70	1544.71	N.A.	38.10
60-80	695.11	N.A.	17.10
70-80	281.63	N.A.	6.90
80-90	165.98	N.A.	4.10
90-110	204.23	N.A.	5.00
90-120	279.00	N.A.	6.90
90-130	334.08	N.A.	8.20
90-150	388.74	N.A.	9.60
90-180	398.98	N.A.	9.80
110-180	194.75	N.A.	4.80
0-180	4054.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.24
10-20	367.31
20-30	542.12
30-40	624.04
40-50	605.27
50-60	525.96
60-70	413.48
70-80	281.63
80-90	165.98
90-100	111.75
100-110	92.49
110-120	74.77
120-130	55.08
130-140	35.70
140-150	18.97
150-160	7.94
160-170	2.19
170-180	0.12

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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**

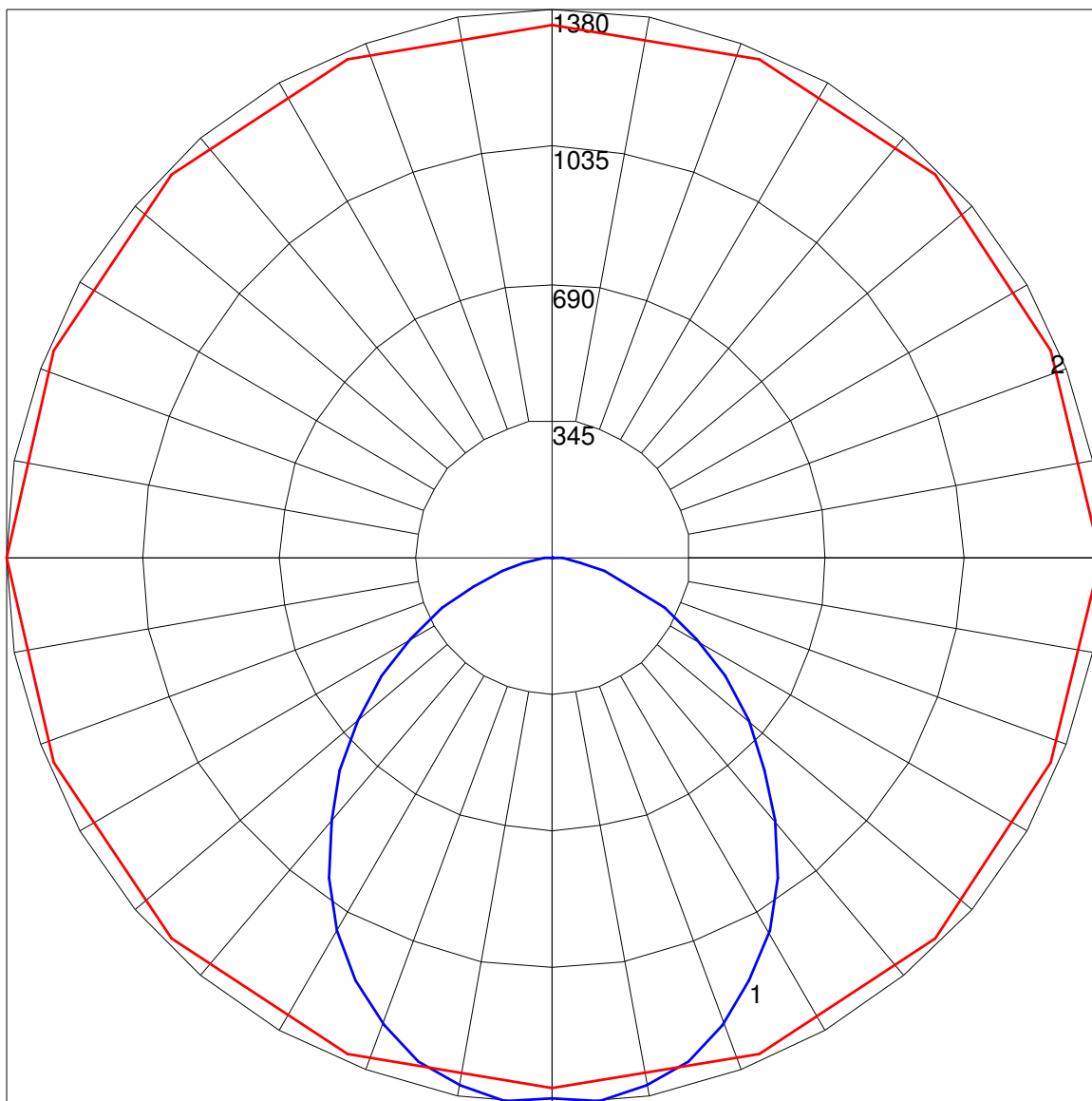
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.0	19.4	18.5	19.9	20.5	20.2	21.7	20.8	22.2	22.7
	3H	19.2	20.4	19.7	21.0	21.5	22.6	23.9	23.2	24.4	25.0
	4H	19.5	20.7	20.0	21.2	21.8	23.8	25.0	24.3	25.5	26.1
	6H	19.6	20.8	20.2	21.3	21.9	24.9	26.0	25.5	26.6	27.2
	8H	19.6	20.7	20.2	21.3	21.9	25.5	26.6	26.1	27.1	27.8
	12H	19.6	20.7	20.2	21.2	21.9	26.1	27.1	26.7	27.7	28.4
4H	2H	18.8	20.0	19.3	20.6	21.2	20.6	21.8	21.1	22.3	23.0
	3H	20.2	21.2	20.8	21.8	22.5	23.2	24.2	23.8	24.8	25.4
	4H	20.7	21.6	21.2	22.2	22.8	24.5	25.4	25.1	26.0	26.7
	6H	20.9	21.7	21.5	22.4	23.0	25.8	26.6	26.4	27.2	27.9
	8H	21.0	21.8	21.6	22.4	23.0	26.5	27.3	27.1	27.9	28.6
	12H	21.0	21.7	21.6	22.3	23.0	27.2	27.9	27.9	28.6	29.3
8H	4H	21.3	22.1	21.9	22.7	23.4	24.6	25.4	25.2	26.0	26.7
	6H	21.7	22.4	22.4	23.0	23.7	26.1	26.8	26.8	27.4	28.1
	8H	21.9	22.4	22.5	23.1	23.8	26.9	27.5	27.6	28.2	28.9
	12H	21.9	22.4	22.6	23.1	23.9	27.8	28.3	28.5	29.0	29.8
12H	4H	21.5	22.2	22.1	22.8	23.5	24.6	25.3	25.2	26.0	26.7
	6H	22.0	22.6	22.7	23.2	24.0	26.1	26.7	26.8	27.3	28.1
	8H	22.2	22.7	22.9	23.4	24.2	27.0	27.5	27.6	28.2	28.9

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 1379.611 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.)