



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-940-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] 03-31-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-940-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	4185
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	33
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)	3.72 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	14637	12376	12354
55	12080	10591	10876
65	9949	8896	9162
75	6723	7310	7507
85	3945	6279	6156

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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>	1340.601	1340.601	1340.601	1340.601	1340.601
<b>5</b>	1355.319	1335.482	1336.122	1332.923	1319.485
<b>10</b>	1332.923	1316.285	1319.485	1317.565	1305.407
<b>15</b>	1293.888	1281.730	1290.689	1294.528	1281.730
<b>20</b>	1235.017	1231.818	1247.175	1253.574	1245.895
<b>25</b>	1165.907	1170.387	1192.143	1206.861	1201.102
<b>30</b>	1086.559	1092.958	1130.073	1152.469	1151.189
<b>35</b>	989.933	1001.452	1055.204	1086.559	1091.038
<b>40</b>	886.909	895.227	963.057	1010.410	1021.289
<b>45</b>	765.327	786.444	864.512	927.223	942.580
<b>50</b>	639.265	673.180	768.526	836.996	856.193
<b>55</b>	518.323	562.477	669.981	741.650	769.166
<b>60</b>	417.218	458.172	575.275	646.944	675.740
<b>65</b>	320.593	365.386	486.968	552.238	577.195
<b>70</b>	224.607	284.758	403.140	460.092	484.408
<b>75</b>	138.220	215.008	325.712	379.464	400.581
<b>80</b>	76.789	148.458	259.802	309.714	323.152
<b>85</b>	32.635	102.385	207.329	250.203	259.162
<b>90</b>	4.479	70.390	160.616	198.371	210.529
<b>95</b>	0.640	47.993	128.621	157.417	170.215
<b>100</b>	0.000	31.355	99.825	128.621	138.859
<b>105</b>	0.000	22.397	77.429	104.944	113.263
<b>110</b>	0.000	15.358	59.511	85.747	92.786
<b>115</b>	0.000	12.798	48.633	71.669	76.789
<b>120</b>	0.000	9.599	37.115	58.871	63.991
<b>125</b>	0.000	5.759	27.516	46.713	52.472
<b>130</b>	0.000	3.839	19.837	36.475	41.594
<b>135</b>	0.000	1.920	14.718	28.796	32.635
<b>140</b>	0.000	1.920	10.238	22.397	25.596
<b>145</b>	0.000	0.000	6.399	14.078	17.917
<b>150</b>	0.000	0.000	4.479	10.238	12.798
<b>155</b>	0.000	0.000	3.200	5.119	8.319
<b>160</b>	0.000	0.000	1.280	3.839	4.479
<b>165</b>	0.000	0.000	0.000	1.280	1.920
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<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	490.22	N.A.	11.70
0-30	1037.8	N.A.	24.80
0-40	1691.23	N.A.	40.40
0-60	2940.1	N.A.	70.20
0-80	3717.42	N.A.	88.80
0-90	3912.79	N.A.	93.50
10-90	3785.87	N.A.	90.50
20-40	1201.01	N.A.	28.70
20-50	1863.1	N.A.	44.50
40-70	1709.29	N.A.	40.80
60-80	777.32	N.A.	18.60
70-80	316.90	N.A.	7.60
80-90	195.37	N.A.	4.70
90-110	186.44	N.A.	4.50
90-120	229.18	N.A.	5.50
90-130	253.45	N.A.	6.10
90-150	270.77	N.A.	6.50
90-180	272.58	N.A.	6.50
110-180	86.14	N.A.	2.10
0-180	4185.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	126.92
10-20	363.30
20-30	547.58
30-40	653.43
40-50	662.09
50-60	586.77
60-70	460.42
70-80	316.90
80-90	195.37
90-100	116.32
100-110	70.12
110-120	42.74
120-130	24.26
130-140	12.26
140-150	5.06
150-160	1.58
160-170	0.23
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	118	118	118	118	114	114	114	114	108	108	108	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	61	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	49	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**

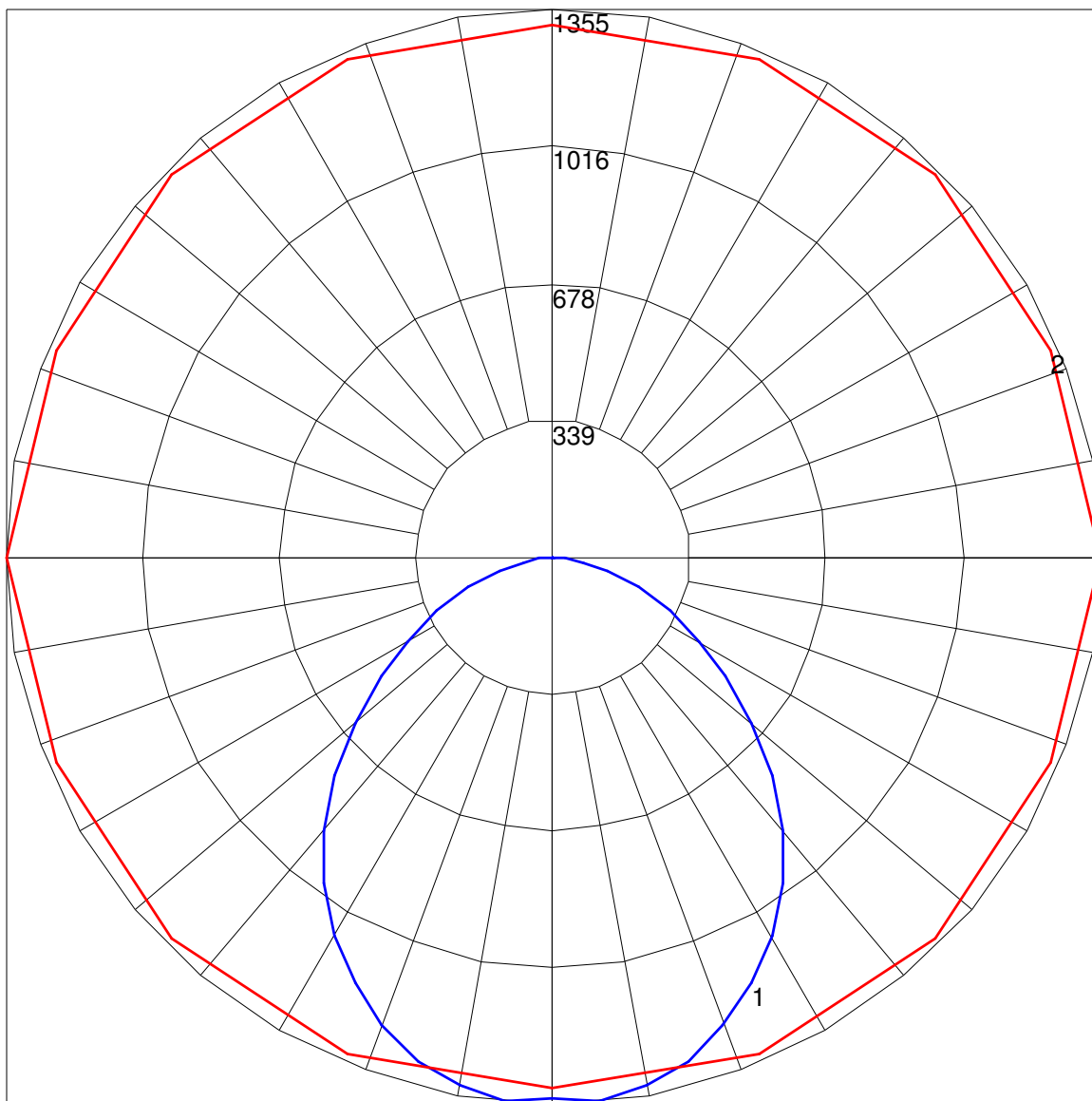
Reflectances

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	17.8	19.3	18.2	19.7	20.2	21.2	22.7	21.6	23.1	23.6
	3H	19.0	20.3	19.4	20.8	21.3	23.4	24.7	23.8	25.2	25.7
	4H	19.3	20.6	19.8	21.1	21.6	24.4	25.7	24.9	26.2	26.7
	6H	19.5	20.7	20.0	21.2	21.7	25.4	26.6	26.0	27.1	27.7
	8H	19.5	20.6	20.0	21.2	21.7	26.0	27.1	26.5	27.6	28.2
	12H	19.5	20.6	20.0	21.1	21.7	26.5	27.6	27.1	28.1	28.7
4H	2H	18.8	20.1	19.3	20.6	21.1	21.5	22.8	22.0	23.3	23.8
	3H	20.3	21.4	20.8	21.9	22.4	23.9	25.0	24.4	25.5	26.1
	4H	20.7	21.7	21.3	22.3	22.9	25.1	26.1	25.6	26.6	27.2
	6H	21.0	21.9	21.6	22.4	23.1	26.3	27.2	26.9	27.8	28.4
	8H	21.1	21.9	21.6	22.5	23.1	26.9	27.8	27.5	28.3	28.9
	12H	21.1	21.8	21.7	22.4	23.1	27.6	28.4	28.2	29.0	29.6
8H	4H	21.5	22.3	22.1	22.9	23.5	25.3	26.1	25.8	26.6	27.3
	6H	22.0	22.7	22.6	23.3	23.9	26.6	27.3	27.2	27.9	28.5
	8H	22.1	22.7	22.7	23.4	24.0	27.4	28.0	28.0	28.6	29.3
	12H	22.2	22.8	22.8	23.4	24.1	28.2	28.8	28.8	29.4	30.1
12H	4H	21.7	22.4	22.3	23.0	23.7	25.2	26.0	25.8	26.6	27.2
	6H	22.3	22.9	22.9	23.5	24.2	26.7	27.3	27.3	27.9	28.6
	8H	22.5	23.1	23.1	23.7	24.4	27.4	28.0	28.1	28.6	29.3

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1355.319 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.)