



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L5-940-RD-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 21002.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 2023-10-03

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 48 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE

[MORE] 1.5"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS

[MORE] 0-10V REMOTE DRIVER ENCLOSURE

[LUMCAT] SL-4-L5-940-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1738
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.05 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10746	8661	8238
55	10143	7749	7431
65	9028	6661	6613
75	7560	5483	5886
85	4093	4546	5300

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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>	547.388	547.388	547.388	547.388	547.388
<b>5</b>	549.180	546.492	542.909	542.013	542.909
<b>10</b>	541.117	538.429	534.846	534.846	536.637
<b>15</b>	529.470	526.783	523.199	524.095	524.095
<b>20</b>	511.552	508.865	504.385	507.969	508.865
<b>25</b>	489.155	486.468	485.572	488.259	490.051
<b>30</b>	461.383	461.383	461.383	464.966	464.070
<b>35</b>	431.818	431.818	431.818	435.402	438.090
<b>40</b>	395.983	396.879	397.775	404.046	407.629
<b>45</b>	357.460	360.147	362.835	370.002	372.690
<b>50</b>	315.353	318.040	324.312	335.062	340.438
<b>55</b>	275.038	275.934	287.580	296.539	304.602
<b>60</b>	228.452	232.931	249.057	266.079	271.454
<b>65</b>	181.865	189.033	207.846	226.660	234.723
<b>70</b>	138.863	146.030	169.323	192.616	199.783
<b>75</b>	94.964	107.507	133.487	159.468	170.219
<b>80</b>	55.545	68.983	103.923	129.904	141.550
<b>85</b>	18.814	43.899	76.151	102.131	113.778
<b>90</b>	0.000	24.189	56.441	79.734	88.693
<b>95</b>	0.000	12.542	38.523	61.816	69.879
<b>100</b>	0.000	6.271	26.877	45.690	53.753
<b>105</b>	0.000	3.584	18.814	33.148	40.315
<b>110</b>	0.000	2.688	12.542	24.189	28.668
<b>115</b>	0.000	1.792	8.063	17.022	21.501
<b>120</b>	0.000	0.000	4.479	10.751	13.438
<b>125</b>	0.000	0.000	3.584	7.167	8.959
<b>130</b>	0.000	0.000	0.000	4.479	5.375
<b>135</b>	0.000	0.000	0.000	0.000	3.584
<b>140</b>	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<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	199.86	N.A.	11.50
0-30	424.49	N.A.	24.40
0-40	695.53	N.A.	40.00
0-60	1234.28	N.A.	71.00
0-80	1582.62	N.A.	91.00
0-90	1663.24	N.A.	95.70
10-90	1611.52	N.A.	92.70
20-40	495.67	N.A.	28.50
20-50	776.84	N.A.	44.70
40-70	745.49	N.A.	42.90
60-80	348.34	N.A.	20.00
70-80	141.60	N.A.	8.10
80-90	80.62	N.A.	4.60
90-110	61.95	N.A.	3.60
90-120	71.35	N.A.	4.10
90-130	74.72	N.A.	4.30
90-150	75.26	N.A.	4.30
90-180	75.26	N.A.	4.30
110-180	13.31	N.A.	0.80
0-180	1738.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	51.73
10-20	148.13
20-30	224.63
30-40	271.04
40-50	281.17
50-60	257.58
60-70	206.74
70-80	141.60
80-90	80.62
90-100	41.35
100-110	20.60
110-120	9.41
120-130	3.37
130-140	0.54
140-150	0.00
150-160	0.00
160-170	0.00
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	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	92	103	98	94	90	93	90	86	89	86	83	84	82	80	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	88	76	68	61	85	75	67	60	71	64	59	68	62	57	64	60	55	53
4	80	68	58	51	77	66	57	51	63	56	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	32	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	29	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	33	28	23	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

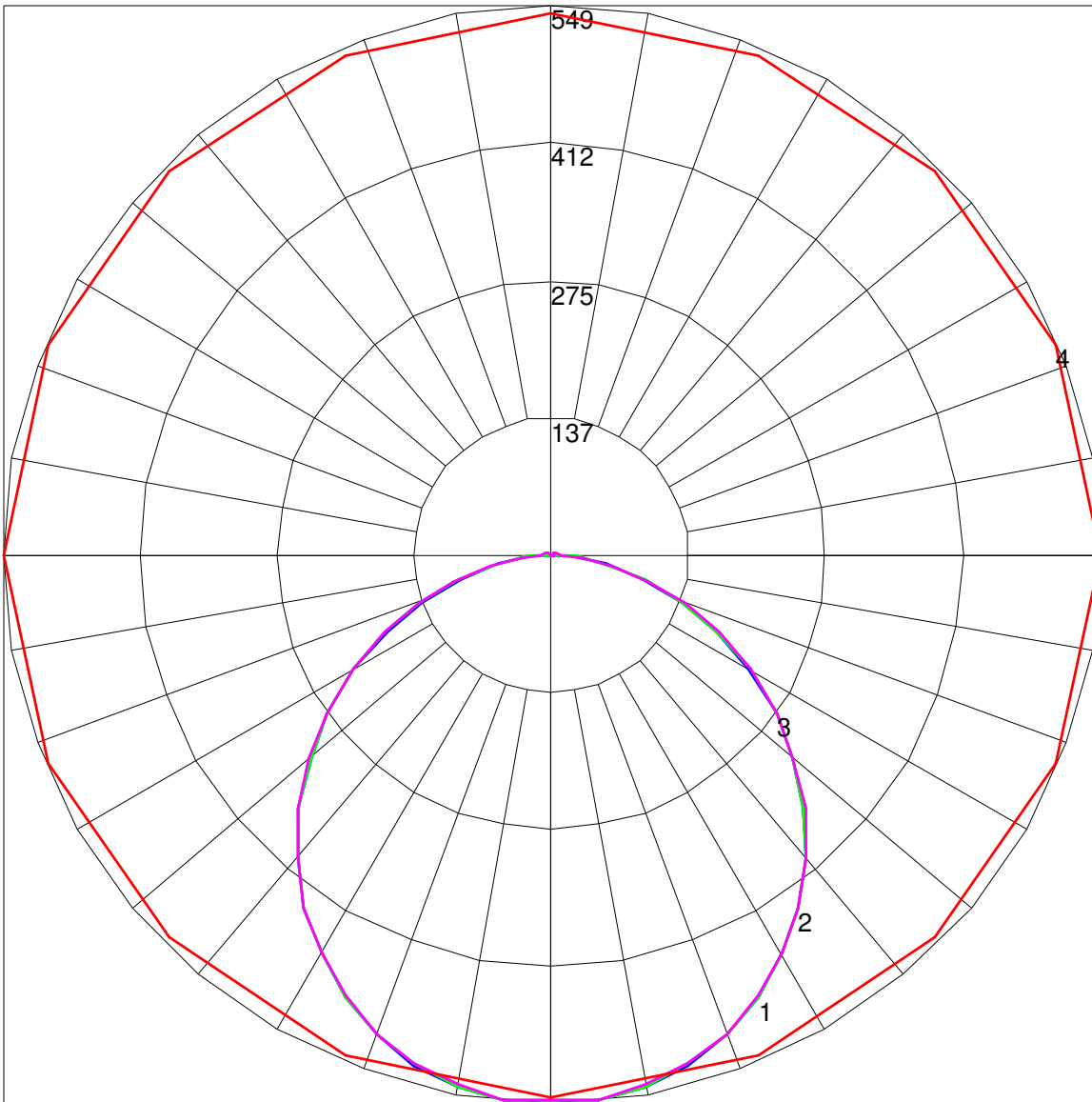
X=2H	Y=2H	18.0	19.6	18.4	20.0	20.4	19.7	21.3	20.1	21.7	22.1
	3H	19.5	20.9	19.9	21.3	21.8	22.0	23.4	22.4	23.9	24.3
	4H	19.9	21.3	20.4	21.7	22.2	23.1	24.5	23.6	24.9	25.4
	6H	20.2	21.5	20.7	22.0	22.4	24.3	25.5	24.7	26.0	26.5
	8H	20.3	21.5	20.8	22.0	22.5	24.9	26.1	25.4	26.6	27.0
	12H	20.3	21.5	20.8	21.9	22.5	25.5	26.7	26.0	27.1	27.7

UGR Viewed Endwise

4H	2H	18.8	20.2	19.2	20.6	21.1	20.1	21.5	20.6	21.9	22.4
	3H	20.5	21.6	20.9	22.1	22.6	22.6	23.8	23.1	24.3	24.8
	4H	21.0	22.1	21.5	22.6	23.1	23.9	25.0	24.4	25.4	26.0
	6H	21.4	22.4	22.0	22.9	23.4	25.2	26.2	25.8	26.7	27.2
	8H	21.5	22.4	22.1	22.9	23.5	25.9	26.8	26.4	27.3	27.9
	12H	21.6	22.4	22.1	22.9	23.5	26.7	27.5	27.2	28.0	28.6
8H	4H	21.6	22.5	22.1	23.0	23.5	24.1	25.0	24.6	25.5	26.0
	6H	22.1	22.9	22.7	23.4	24.0	25.6	26.3	26.1	26.9	27.4
	8H	22.3	23.0	22.8	23.5	24.1	26.4	27.1	26.9	27.6	28.2
	12H	22.4	23.0	23.0	23.5	24.2	27.3	27.9	27.9	28.5	29.1
12H	4H	21.7	22.5	22.3	23.1	23.6	24.1	24.9	24.6	25.4	26.0
	6H	22.3	23.0	22.9	23.6	24.2	25.6	26.3	26.2	26.8	27.4
	8H	22.6	23.2	23.2	23.7	24.4	26.5	27.1	27.0	27.6	28.3

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 549.18 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)