



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-8-L3-930-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] 96 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE  
[MORE] 1.5x24"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS  
[MORE] 0-10V REMOTE DRIVER ENCLOSURE  
[LUMCAT] SL-8-L3-930-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	21.1
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)	8.00 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	6545	5261	4988
55	6192	4712	4500
65	5534	4056	4004
75	4676	3345	3564
85	2634	2784	3209

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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>	662.864	662.864	662.864	662.864	662.864
<b>5</b>	665.034	661.779	657.440	656.355	657.440
<b>10</b>	655.270	652.015	647.676	647.676	649.846
<b>15</b>	641.166	637.912	633.572	634.657	634.657
<b>20</b>	619.469	616.214	610.790	615.129	616.214
<b>25</b>	592.347	589.092	588.007	591.262	593.432
<b>30</b>	558.715	558.715	558.715	563.055	561.970
<b>35</b>	522.914	522.914	522.914	527.254	530.508
<b>40</b>	479.519	480.604	481.689	489.283	493.622
<b>45</b>	432.869	436.123	439.378	448.057	451.312
<b>50</b>	381.879	385.134	392.728	405.747	412.256
<b>55</b>	333.059	334.144	348.248	359.097	368.861
<b>60</b>	276.645	282.070	301.598	322.211	328.720
<b>65</b>	220.231	228.911	251.693	274.476	284.240
<b>70</b>	168.157	176.836	205.043	233.250	241.929
<b>75</b>	114.998	130.186	161.648	193.109	206.128
<b>80</b>	67.263	83.536	125.847	157.308	171.412
<b>85</b>	22.783	53.159	92.215	123.677	137.780
<b>90</b>	0.000	29.292	68.348	96.555	107.404
<b>95</b>	0.000	15.188	46.650	74.857	84.621
<b>100</b>	0.000	7.594	32.547	55.329	65.093
<b>105</b>	0.000	4.340	22.783	40.141	48.820
<b>110</b>	0.000	3.255	15.188	29.292	34.716
<b>115</b>	0.000	2.170	9.764	20.613	26.037
<b>120</b>	0.000	0.000	5.424	13.019	16.273
<b>125</b>	0.000	0.000	4.340	8.679	10.849
<b>130</b>	0.000	0.000	0.000	5.424	6.509
<b>135</b>	0.000	0.000	0.000	0.000	4.340
<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	242.02	N.A.	11.50
0-30	514.04	N.A.	24.40
0-40	842.26	N.A.	40.00
0-60	1494.67	N.A.	71.00
0-80	1916.49	N.A.	91.00
0-90	2014.12	N.A.	95.70
10-90	1951.48	N.A.	92.70
20-40	600.24	N.A.	28.50
20-50	940.73	N.A.	44.70
40-70	902.76	N.A.	42.90
60-80	421.82	N.A.	20.00
70-80	171.47	N.A.	8.10
80-90	97.63	N.A.	4.60
90-110	75.02	N.A.	3.60
90-120	86.41	N.A.	4.10
90-130	90.48	N.A.	4.30
90-150	91.13	N.A.	4.30
90-180	91.13	N.A.	4.30
110-180	16.11	N.A.	0.80
0-180	2105.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	62.64
10-20	179.38
20-30	272.01
30-40	328.22
40-50	340.49
50-60	311.92
60-70	250.35
70-80	171.47
80-90	97.63
90-100	50.08
100-110	24.94
110-120	11.39
120-130	4.08
130-140	0.65
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	55	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**

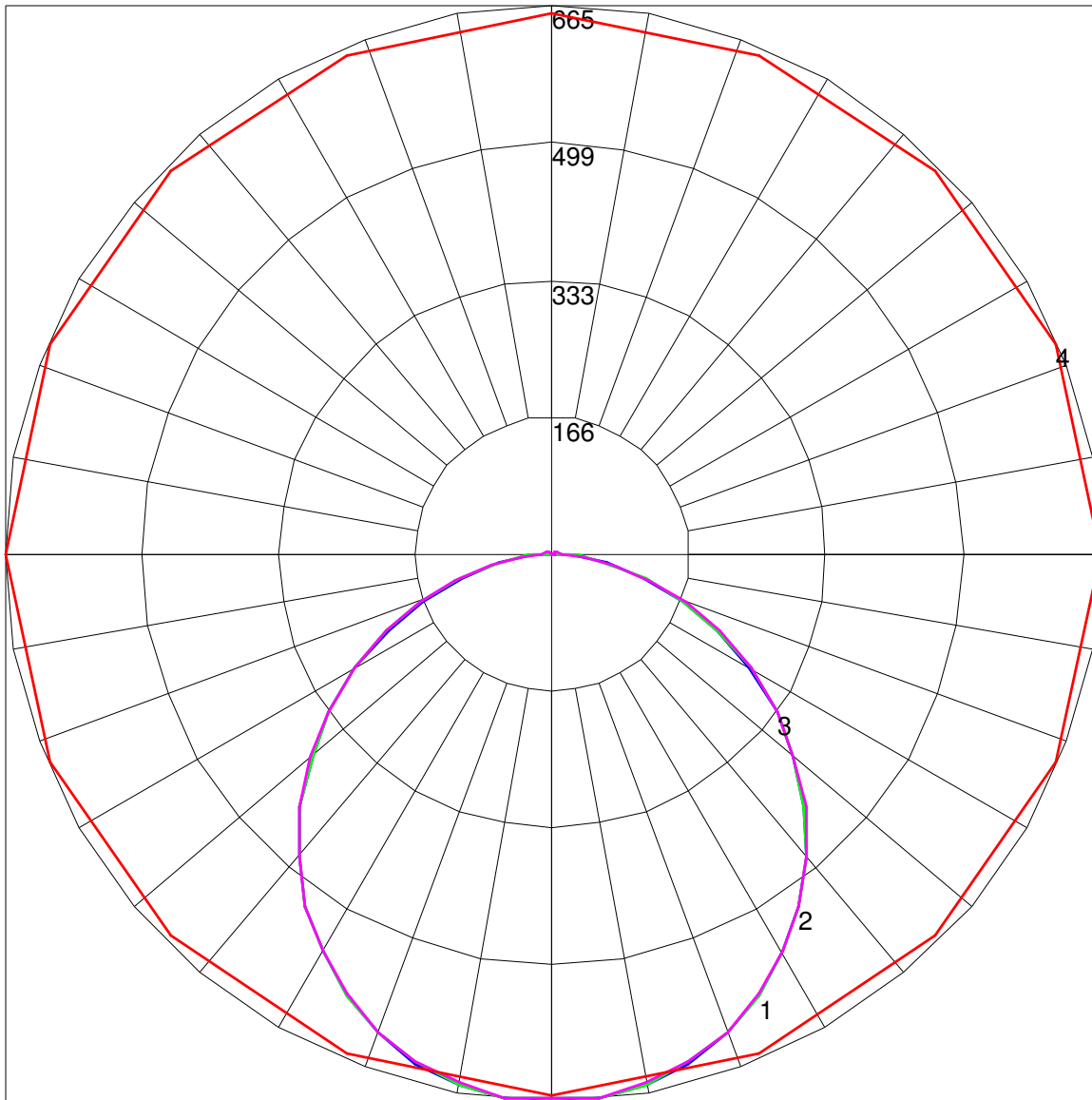
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.3	17.9	16.7	18.3	18.7	18.0	19.6	18.4	20.0	20.4
	3H	17.8	19.2	18.2	19.6	20.1	20.3	21.8	20.8	22.2	22.6
	4H	18.2	19.6	18.7	20.0	20.5	21.4	22.8	21.9	23.2	23.7
	6H	18.5	19.8	19.0	20.2	20.7	22.6	23.9	23.1	24.3	24.8
	8H	18.6	19.8	19.1	20.3	20.8	23.2	24.4	23.7	24.9	25.4
	12H	18.6	19.8	19.1	20.2	20.8	23.9	25.1	24.4	25.5	26.0
4H	2H	17.1	18.5	17.5	18.9	19.4	18.4	19.8	18.9	20.2	20.7
	3H	18.8	19.9	19.2	20.4	20.9	21.0	22.1	21.4	22.6	23.1
	4H	19.3	20.4	19.8	20.9	21.4	22.2	23.3	22.7	23.8	24.3
	6H	19.7	20.7	20.3	21.2	21.7	23.6	24.5	24.1	25.0	25.6
	8H	19.8	20.7	20.4	21.2	21.8	24.3	25.2	24.8	25.7	26.2
	12H	19.9	20.7	20.4	21.2	21.8	25.1	25.9	25.6	26.4	27.0
8H	4H	19.9	20.8	20.4	21.3	21.8	22.4	23.3	22.9	23.8	24.4
	6H	20.4	21.2	21.0	21.7	22.3	23.9	24.7	24.4	25.2	25.8
	8H	20.6	21.3	21.1	21.8	22.4	24.7	25.4	25.3	26.0	26.6
	12H	20.7	21.3	21.3	21.9	22.5	25.7	26.3	26.3	26.8	27.5
12H	4H	20.0	20.8	20.6	21.4	21.9	22.4	23.2	23.0	23.8	24.3
	6H	20.7	21.3	21.2	21.9	22.5	23.9	24.6	24.5	25.2	25.8
	8H	20.9	21.5	21.5	22.0	22.7	24.8	25.4	25.4	26.0	26.6

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 665.034 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.)