

# LIGHT LABORATORY, INC.

8165 E Kaiser Blvd. Anaheim, CA 92808

SHT 1 OF 6

Test #: L04110201

Date: 03/30/2011

## Luminaire Photometric Performance LM-79-2008

Manufacturer:	J&J ELECTRONICS
Model Number:	CB2 SW27

Total Lumens:	154.91
Input Power (W):	4.56
Input Current (Amp):	0.20
Input Power Factor:	0.96
Efficacy:	33.97
Color Rendering Index ( CRI ):	86.50
Correlated Color Temperature ( K ):	2677
Chromaticity Ordinate x:	0.456
Chromaticity Ordinate y:	0.402

\*Test data documentation on file and available upon request.

\*All results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

REV.	LOG NUMBER	REVISION DESCRIPTION	REVISION BY	CHECKED BY	APPROVED BY	DATE
A					JS	03/30/11

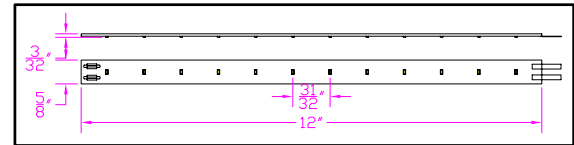
**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L04110201.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L04110201  
[TESTLAB] LIGHT LABORATORY INC  
[ISSUEDATE] 3/30/2011  
[MANUFAC] J&J ELECTRONICS  
[LUMCAT] CB2 SW27  
[LUMINAIRE] 12"L. X 5/8"W. X 3/32"H. LED STRIP LIGHT  
[MORE] 31/32" SPACING WITH 12 2700K WARM WHITE LEDS  
[LAMPPOSITION] 0,0  
[LAMPCAT] 2700K WARM WHITE LED  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 24VAC, 4.56W  
[\_TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	155
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	4.56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.28
Spacing Criteria (90-270)	1.26
Spacing Criteria (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.90 ft
Luminous Width (90-270)	0.01 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	60422	61124	61826
55	58898	58032	57165
65	54075	52899	54075
75	42228	44149	38392
85	34205	34205	11406

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0</b>	56.129	56.129	56.129	56.129	56.129
<b>5</b>	55.714	55.714	56.129	56.129	55.714
<b>10</b>	54.882	54.882	54.466	54.051	55.714
<b>15</b>	53.219	53.635	53.219	53.219	54.051
<b>20</b>	50.725	51.556	51.972	51.140	50.725
<b>25</b>	50.725	49.893	49.893	50.309	49.062
<b>30</b>	48.230	47.399	47.814	47.814	47.399
<b>35</b>	44.072	44.903	44.488	44.072	43.240
<b>40</b>	40.746	39.498	40.746	39.914	39.914
<b>45</b>	35.757	36.588	36.172	36.588	36.588
<b>50</b>	31.599	32.431	32.431	32.431	32.431
<b>55</b>	28.273	27.857	27.857	27.441	27.441
<b>60</b>	24.115	23.699	23.283	22.867	24.115
<b>65</b>	19.126	19.541	18.710	19.126	19.126
<b>70</b>	13.305	13.721	13.721	13.721	13.305
<b>75</b>	9.147	9.563	9.563	9.147	8.316
<b>80</b>	4.989	5.405	4.989	4.989	4.158
<b>85</b>	2.495	2.910	2.495	1.663	0.832
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	43.34	N.A.	28.00
0-40	70.97	N.A.	45.80
0-60	123.92	N.A.	80.00
0-90	154.91	N.A.	100.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
0-180	154.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	5.30
10-20	15.05
20-30	22.99
30-40	27.63
40-50	28.05
50-60	24.91
60-70	18.65
70-80	9.79
80-90	2.55
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

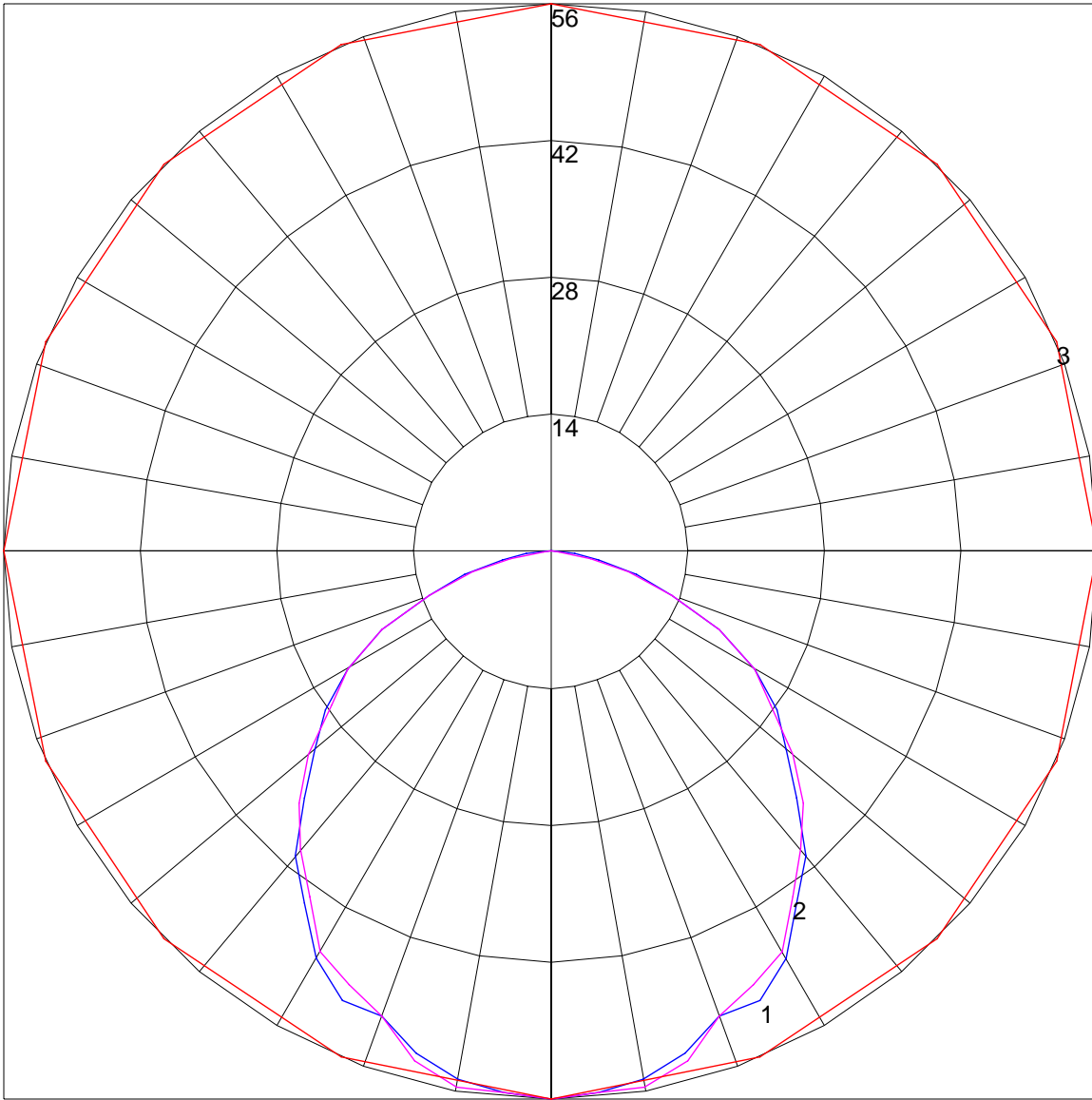
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

POLAR GRAPH



Maximum Candela = 56.129 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) : BLUE  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA  
# 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.) : RED