

# LIGHT LABORATORY, INC.

8165 E Kaiser Blvd. Anaheim, CA 92808

SHT 1 OF 6

Test #: L04110203

Date: 04/01/2011

## Luminaire Photometric Performance LM-79-2008

Manufacturer:	J&J ELECTRONICS
Model Number:	CB2 SW35

Total Lumens:	183.76
Input Power (W):	4.59
Input Current (Amp):	0.20
Input Power Factor:	0.96
Efficacy:	40.03
Color Rendering Index ( CRI ):	87.80
Correlated Color Temperature ( K ):	3425
Chromaticity Ordinate x:	0.405
Chromaticity Ordinate y:	0.383

\*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	04/01/11

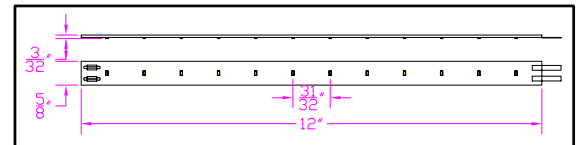
**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L04110203.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L04110203  
[TESTLAB] LIGHT LABORATORY INC  
[ISSUEDATE] 4/1/2011  
[MANUFAC] J&J ELECTRONICS  
[LUMCAT] CB2 SW35  
[LUMINAIRE] 12"L. X 5/8"W. X 3/32"H. LED STRIP LIGHT  
[MORE] 31/32" SPACING WITH 12 3500K NEUTRAL WHITE LEDS  
[LAMPPOSITION] 0,0  
[LAMPCAT] 3500K NEUTRAL WHITE LED  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 24VAC, 4.59W  
[\_TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
Total Luminaire Watts	4.59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.26
Spacing Criteria (Diagonal)	1.40
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	73067	73770	73067
55	67560	69291	67560
65	63479	62302	61126
75	53747	57588	49910
85	57005	45598	22799

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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>	64.861	64.861	64.861	64.861	64.861
<b>5</b>	64.861	64.445	63.613	64.445	64.029
<b>10</b>	64.029	64.029	63.613	64.029	64.029
<b>15</b>	63.197	62.781	62.366	62.366	63.197
<b>20</b>	60.703	60.703	60.287	60.703	60.703
<b>25</b>	58.208	58.624	59.040	58.624	58.208
<b>30</b>	54.051	55.714	55.714	55.298	55.714
<b>35</b>	51.556	51.972	51.972	51.972	50.725
<b>40</b>	48.230	47.814	49.062	48.230	48.230
<b>45</b>	43.240	43.656	43.656	43.656	43.240
<b>50</b>	38.251	38.251	37.420	37.420	37.420
<b>55</b>	32.431	33.678	33.262	32.846	32.431
<b>60</b>	27.441	27.857	27.857	27.857	27.441
<b>65</b>	22.452	21.620	22.036	22.452	21.620
<b>70</b>	15.800	16.631	17.047	16.631	15.800
<b>75</b>	11.642	11.642	12.474	11.642	10.811
<b>80</b>	4.989	7.484	6.652	7.068	4.989
<b>85</b>	4.158	3.326	3.326	3.326	1.663
<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	50.73	N.A.	27.60
0-40	83.21	N.A.	45.30
0-60	146.10	N.A.	79.50
0-90	183.79	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	183.79	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	6.13
10-20	17.67
20-30	26.93
30-40	32.48
40-50	33.44
50-60	29.45
60-70	21.87
70-80	12.29
80-90	3.54
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

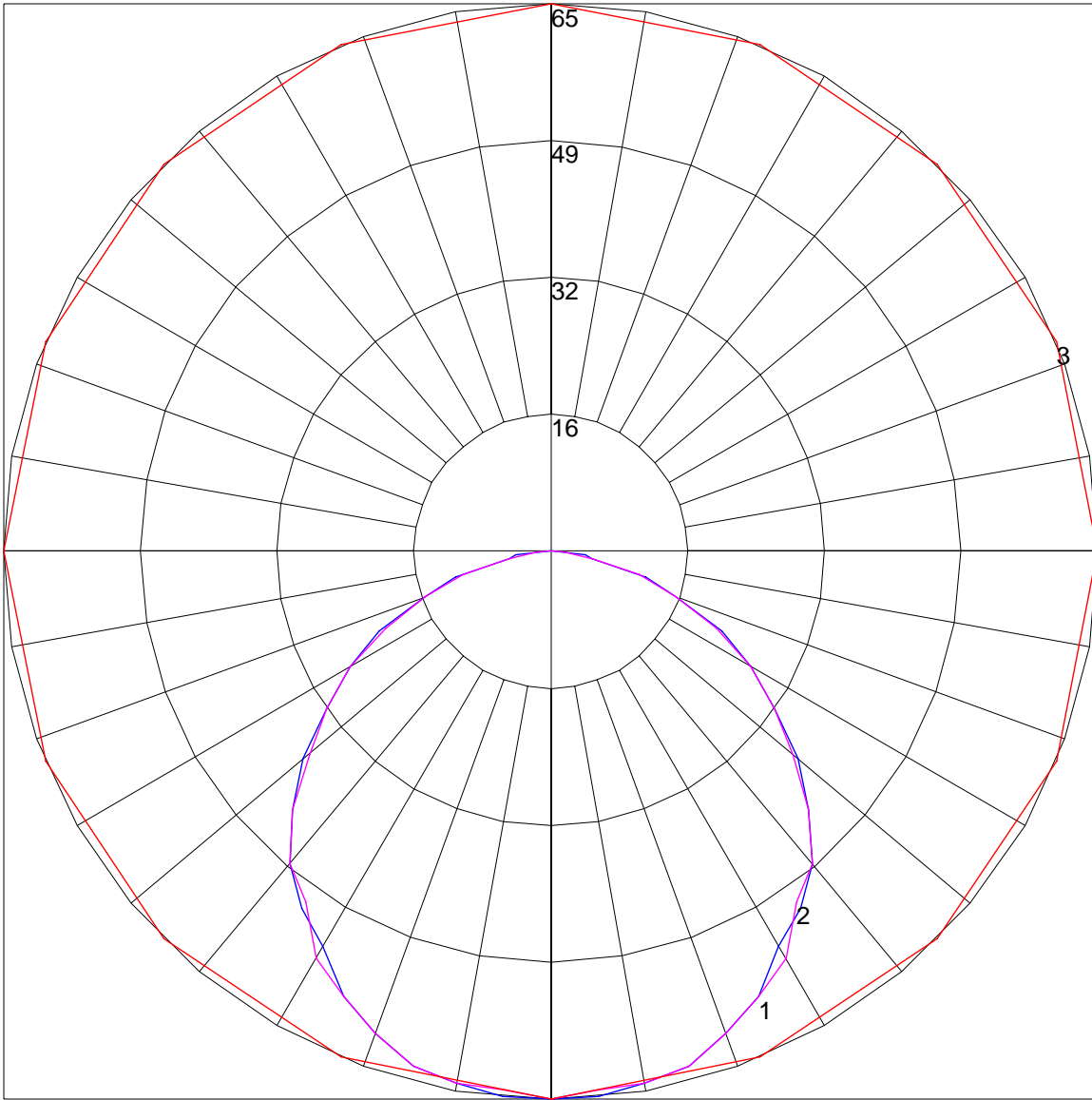
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 64.861 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