

LIGHT LABORATORY, INC.

8165 E Kaiser Blvd. Anaheim, CA 92808

SHT 1 OF 6

Test #: L04110202

Date: 03/30/2011

Luminaire Photometric Performance LM-79-2008

Manufacturer:	J&J ELECTRONICS
Model Number:	CB2 SW27

Total Lumens:	253.01
Input Power (W):	6.19
Input Current (Amp):	0.26
Input Power Factor:	1.00
Efficacy:	40.87
Color Rendering Index (CRI):	86.00
Correlated Color Temperature (K):	2658
Chromaticity Ordinate x:	0.459
Chromaticity Ordinate y:	0.404

*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

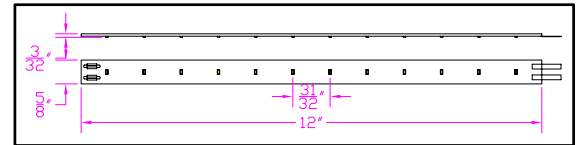
**IES INDOOR REPORT
PHOTOMETRIC FILENAME : L04110202.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L04110202
[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.
[_POWER SUPPLY] 24VDC CONSTANT VOLTAGE SOURCE
[_INPUT] 24VDC, 6.19W
[_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	253
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	6.19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.26
Spacing Criteria (Diagonal)	1.38
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	102576	101170	99766
55	97008	97873	95275
65	86991	88164	86991
75	72943	80620	72943
85	68397	57005	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>
0	89.183	89.183	89.183	89.183	89.183
5	88.144	88.560	88.560	88.560	88.975
10	87.313	88.144	87.313	88.144	87.313
15	86.481	86.481	86.065	86.065	86.481
20	83.155	83.155	83.571	83.571	82.323
25	79.828	79.828	79.828	78.997	78.997
30	74.839	76.502	75.255	75.671	74.839
35	70.682	70.682	70.682	71.097	69.850
40	65.693	65.277	64.861	64.861	64.861
45	60.703	60.703	59.871	60.287	59.040
50	52.388	52.388	52.388	52.803	51.556
55	46.567	47.398	46.982	46.982	45.735
60	39.914	37.835	38.251	38.251	38.251
65	30.768	30.768	31.183	31.183	30.768
70	22.452	23.283	24.115	23.283	22.452
75	15.800	16.215	17.463	15.800	15.800
80	8.315	8.731	9.147	8.731	8.316
85	4.989	4.158	4.158	3.326	1.663
90	0.000	0.416	1.247	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	69.42	N.A.	27.40
0-40	113.61	N.A.	44.90
0-60	200.83	N.A.	79.40
0-90	253.01	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	253.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	8.43
10-20	24.29
20-30	36.70
30-40	44.19
40-50	45.94
50-60	41.29
60-70	30.59
70-80	17.05
80-90	4.53
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

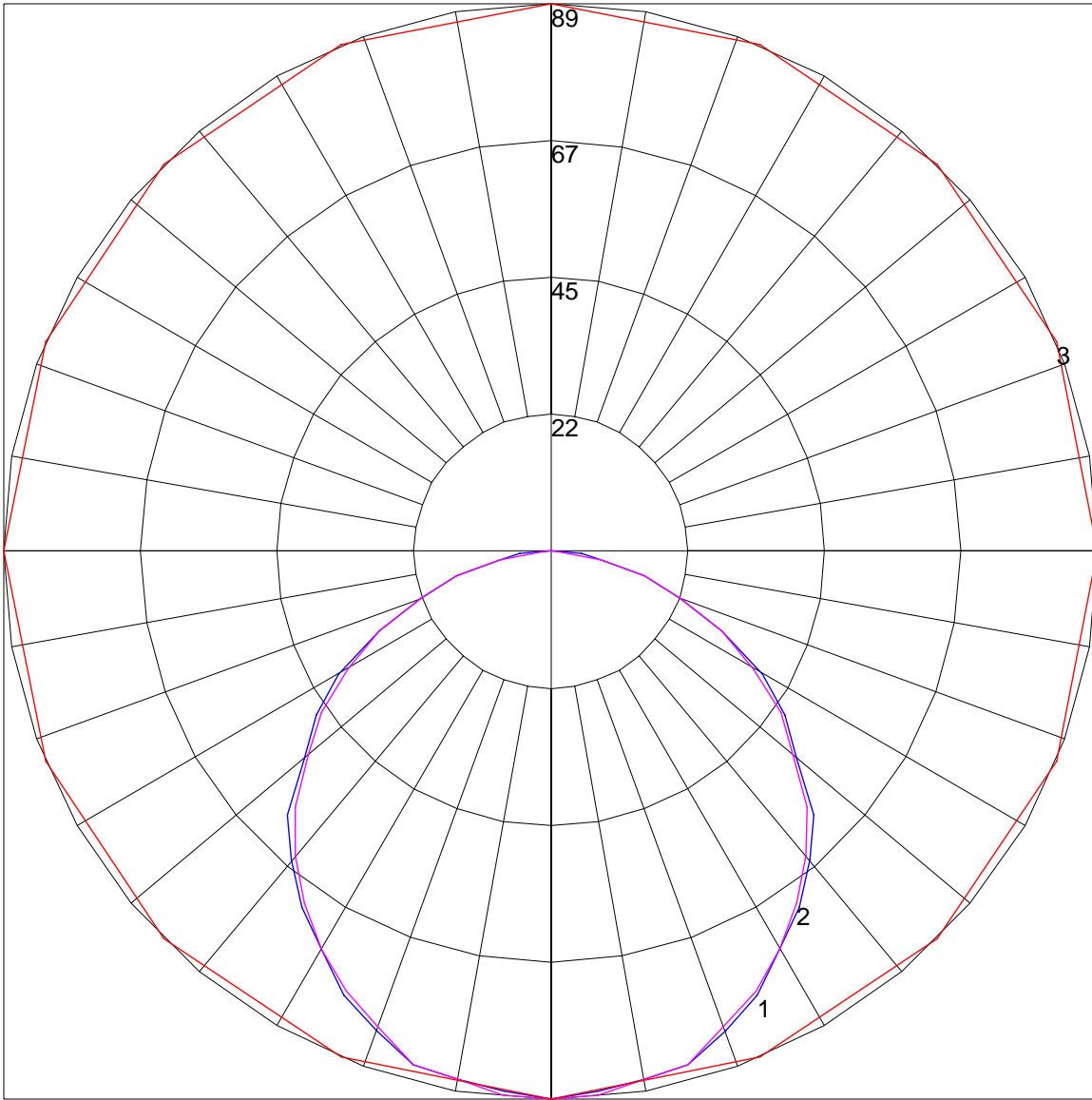
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 89.183 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