

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P230809

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-SQP-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2080.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

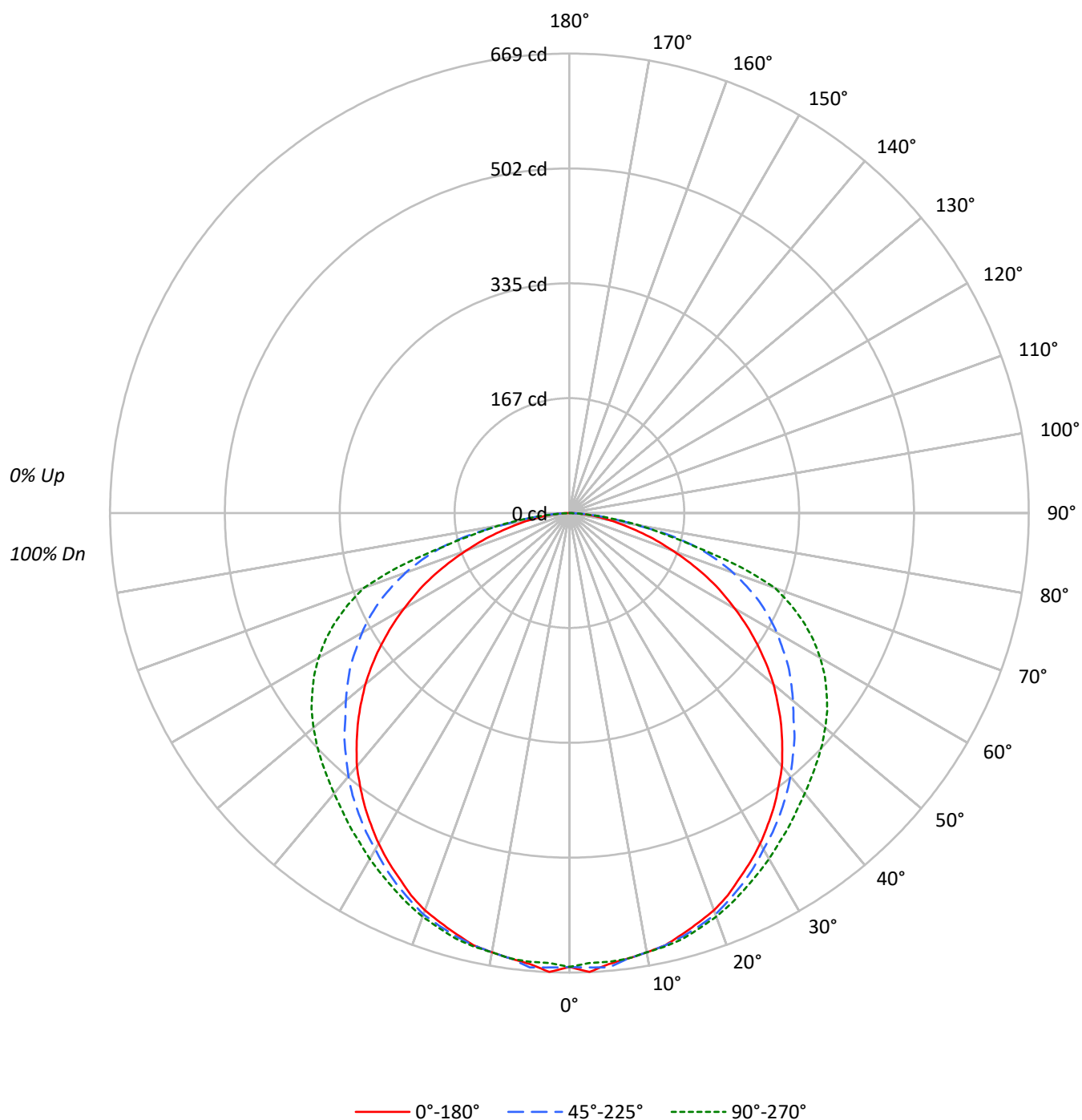
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1778	1778	1778
5°	1780	1793	1771
10°	1774	1774	1774
15°	1768	1777	1787
20°	1762	1781	1790
25°	1741	1770	1794
30°	1727	1757	1807
35°	1709	1757	1831
40°	1691	1759	1873
45°	1660	1764	1942
50°	1623	1778	2035
55°	1569	1826	2145
60°	1495	1878	2269
65°	1409	1944	2397
70°	1258	1995	2504
75°	1092	1998	1982
80°	927	1477	1602
85°	797	997	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.0
10°-20°	180.1	8.7
20°-30°	274.5	13.2
30°-40°	335.9	16.1
40°-50°	361.4	17.4
50°-60°	350.1	16.8
60°-70°	296.6	14.3
70°-80°	179.3	8.6
80°-90°	39.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	517.4	24.9
0°-40°	853.3	41.0
0°-60°	1564.8	75.2
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	659	659	664	661	656	63
15°	635	636	638	640	641	179
25°	586	590	596	601	604	271
35°	520	523	535	549	557	325
45°	436	444	464	493	510	336
55°	334	349	389	434	457	299
65°	221	246	305	354	376	218
75°	105	142	192	196	191	113
85°	26	31	32	31	29	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.7	660.7	660.7	660.7	660.7
2.5°	668.7	667.1	662.3	659.0	655.8
5°	659.0	659.0	663.9	660.7	655.8
7.5°	654.2	654.2	654.2	662.3	654.2
10°	649.4	651.0	649.4	655.8	649.4
12.5°	644.5	644.5	644.5	646.1	646.1
15°	634.8	636.4	638.0	639.7	641.3
17.5°	625.1	626.7	630.0	631.6	633.2
20°	615.4	617.1	621.9	621.9	625.1
22.5°	602.5	602.5	609.0	610.6	615.4
25°	586.4	589.6	596.1	600.9	604.1
27.5°	571.8	575.1	581.5	588.0	592.8
30°	555.7	558.9	565.4	575.1	581.5
32.5°	537.9	541.1	550.8	562.1	568.6
35°	520.1	523.4	534.7	549.2	557.3
37.5°	500.7	505.6	518.5	534.7	544.4
40°	481.4	486.2	500.7	518.5	533.1
42.5°	458.7	465.2	481.4	505.6	521.7
45°	436.1	444.2	463.6	492.7	510.4
47.5°	411.9	420.0	442.6	479.7	499.1
50°	387.7	397.4	424.8	465.2	486.2
52.5°	361.8	371.5	407.1	450.7	473.3
55°	334.4	348.9	389.3	434.5	457.1
57.5°	306.9	323.1	368.3	416.8	441.0
60°	277.8	297.2	348.9	397.4	421.6
62.5°	250.4	271.4	327.9	376.4	400.6
65°	221.3	245.5	305.3	353.8	376.4
67.5°	190.6	221.3	279.4	326.3	348.9
70°	159.9	195.5	253.6	297.2	318.2
72.5°	132.5	169.6	224.5	261.7	261.7
75°	105.0	142.1	192.2	195.5	190.6
77.5°	80.8	116.3	150.2	137.3	140.5
80°	59.8	88.8	95.3	100.1	103.4
82.5°	40.4	59.8	61.4	64.6	64.6
85°	25.8	30.7	32.3	30.7	29.1
87.5°	11.3	12.9	9.7	6.5	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)