

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: P230813

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230813
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-LD5-39-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: 2338.0 lumens
Efficiency: N/A
Efficacy: 64.2 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

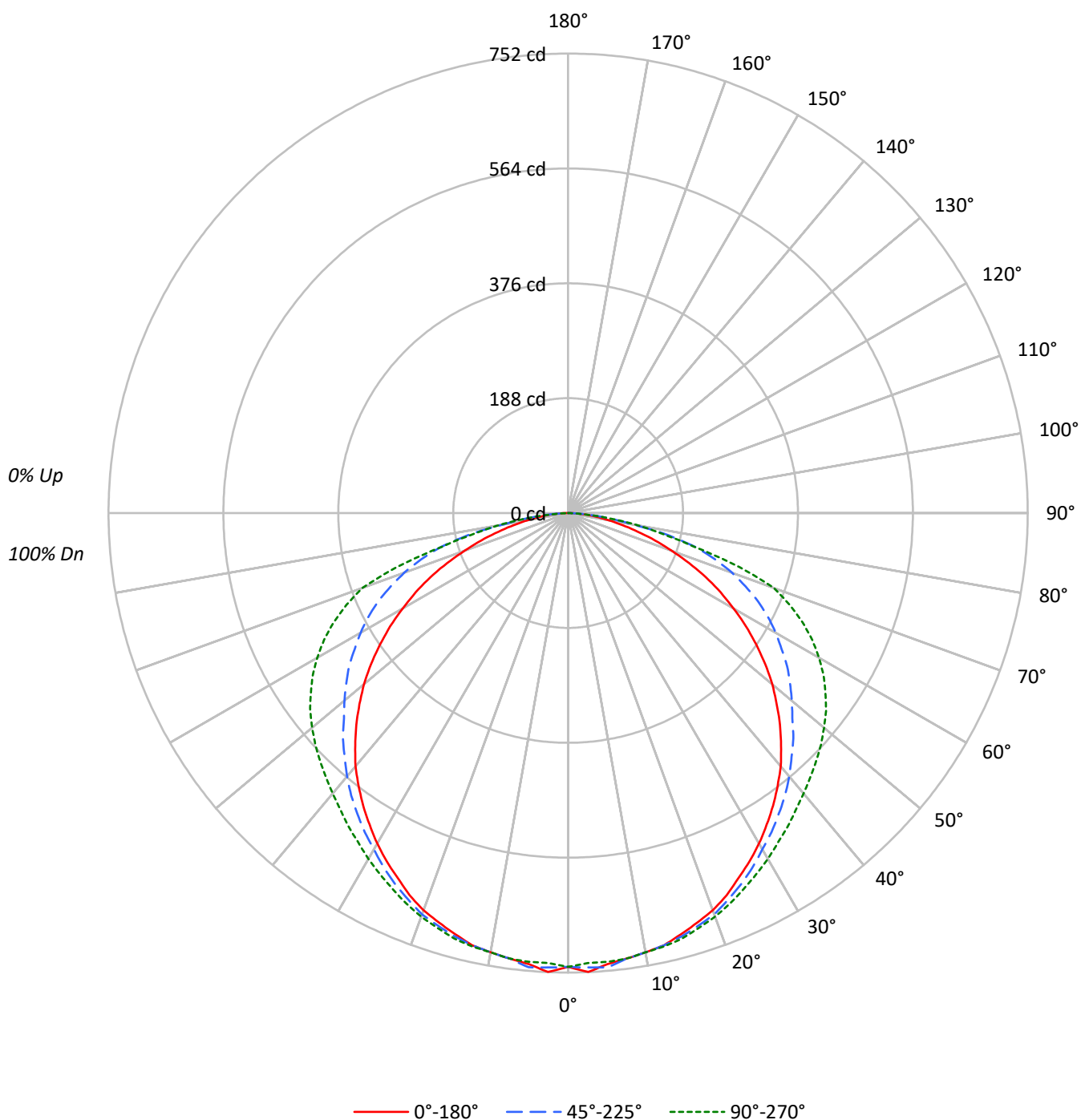
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1998	1998	1998
5°	2001	2016	1991
10°	1994	1994	1994
15°	1988	1998	2008
20°	1981	2002	2012
25°	1957	1989	2016
30°	1941	1975	2031
35°	1920	1974	2058
40°	1901	1977	2105
45°	1866	1983	2184
50°	1824	1999	2288
55°	1763	2053	2411
60°	1681	2111	2551
65°	1584	2185	2694
70°	1415	2243	2814
75°	1227	2247	2227
80°	1041	1660	1801
85°	898	1121	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.0
10°-20°	202.5	8.7
20°-30°	308.6	13.2
30°-40°	377.6	16.1
40°-50°	406.2	17.4
50°-60°	393.5	16.8
60°-70°	333.3	14.3
70°-80°	201.5	8.6
80°-90°	44.3	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°	581.6	24.9
0°-40°	959.1	41.0
0°-60°	1758.9	75.2
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	741	741	746	743	737	70
15°	714	715	717	719	721	202
25°	659	663	670	675	679	304
35°	585	588	601	617	626	366
45°	490	499	521	554	574	378
55°	376	392	438	488	514	336
65°	249	276	343	398	423	245
75°	118	160	216	220	214	127
85°	29	34	36	34	33	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.6	742.6	742.6	742.6	742.6
2.5°	751.7	749.9	744.4	740.8	737.2
5°	740.8	740.8	746.2	742.6	737.2
7.5°	735.3	735.3	735.3	744.4	735.3
10°	729.9	731.7	729.9	737.2	729.9
12.5°	724.5	724.5	724.5	726.3	726.3
15°	713.6	715.4	717.2	719.0	720.8
17.5°	702.7	704.5	708.1	709.9	711.7
20°	691.8	693.6	699.0	699.0	702.7
22.5°	677.2	677.2	684.5	686.3	691.8
25°	659.1	662.7	670.0	675.4	679.1
27.5°	642.7	646.4	653.6	660.9	666.4
30°	624.6	628.2	635.5	646.4	653.6
32.5°	604.6	608.3	619.1	631.9	639.1
35°	584.6	588.3	601.0	617.3	626.4
37.5°	562.9	568.3	582.8	601.0	611.9
40°	541.1	546.5	562.9	582.8	599.2
42.5°	515.7	522.9	541.1	568.3	586.5
45°	490.2	499.3	521.1	553.8	573.8
47.5°	463.0	472.1	497.5	539.3	561.0
50°	435.8	446.7	477.5	522.9	546.5
52.5°	406.7	417.6	457.6	506.6	532.0
55°	375.8	392.2	437.6	488.4	513.8
57.5°	345.0	363.1	414.0	468.4	495.7
60°	312.3	334.1	392.2	446.7	473.9
62.5°	281.4	305.0	368.6	423.1	450.3
65°	248.7	276.0	343.2	397.6	423.1
67.5°	214.2	248.7	314.1	366.8	392.2
70°	179.8	219.7	285.1	334.1	357.7
72.5°	148.9	190.6	252.4	294.1	294.1
75°	118.0	159.8	216.1	219.7	214.2
77.5°	90.8	130.7	168.9	154.3	158.0
80°	67.2	99.9	107.1	112.6	116.2
82.5°	45.4	67.2	69.0	72.6	72.6
85°	29.1	34.5	36.3	34.5	32.7
87.5°	12.7	14.5	10.9	7.3	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)