

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: P230537

Luminaire Tested: **22CZ-LD5-24-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2127.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

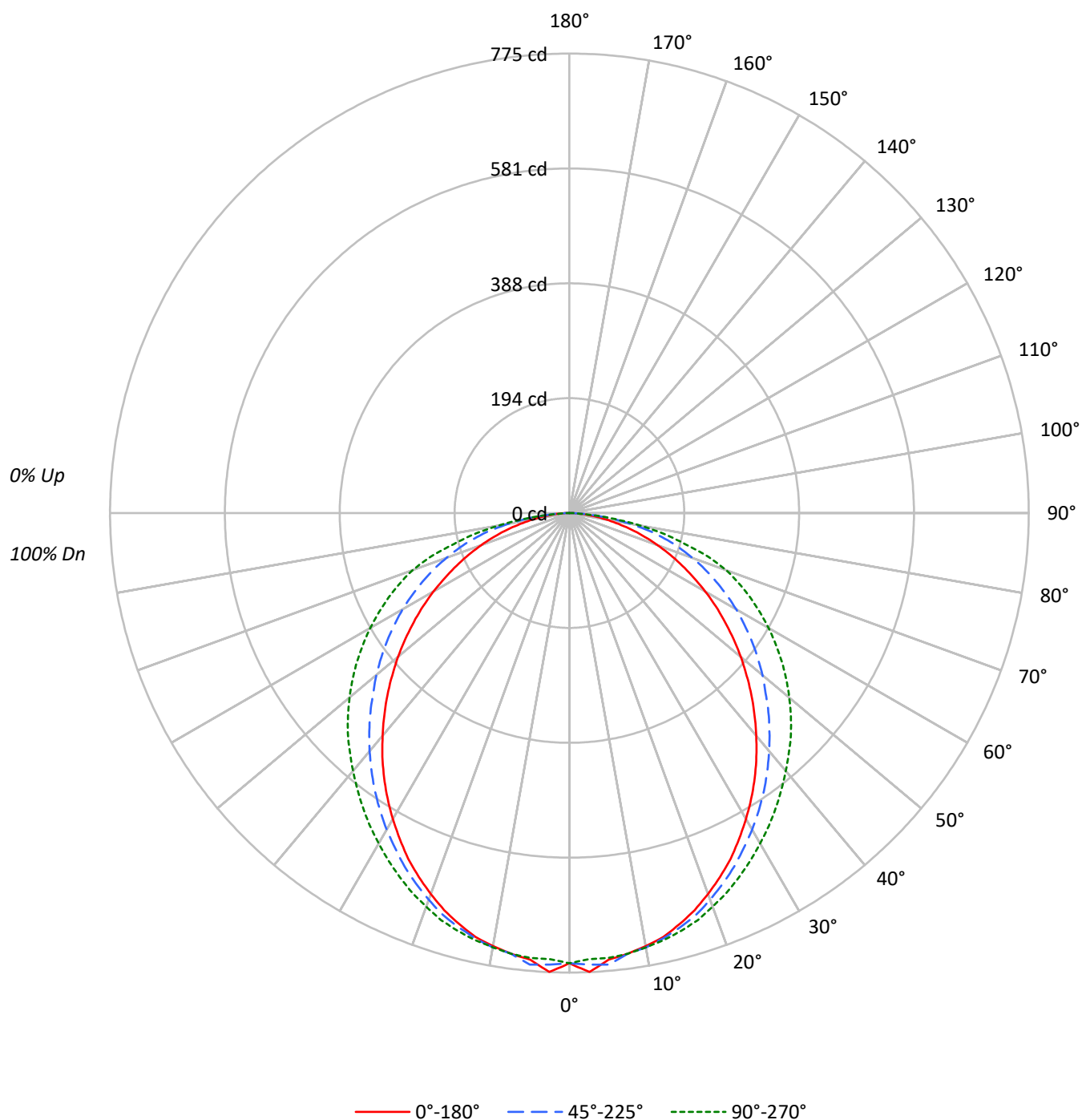
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2043	2043	2043
5°	2042	2065	2034
10°	2026	2032	2032
15°	2000	2014	2031
20°	1958	1987	2023
25°	1910	1953	2012
30°	1851	1916	1999
35°	1791	1879	1995
40°	1722	1842	1995
45°	1653	1807	2011
50°	1580	1780	2027
55°	1504	1762	2053
60°	1425	1748	2088
65°	1337	1739	2141
70°	1245	1733	2213
75°	1129	1731	2097
80°	978	1602	1860
85°	831	1213	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	204.0	9.6
20°-30°	303.4	14.3
30°-40°	358.9	16.9
40°-50°	368.8	17.3
50°-60°	337.0	15.8
60°-70°	269.6	12.7
70°-80°	169.2	8.0
80°-90°	44.1	2.1
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°	579.4	27.2
0°-40°	938.2	44.1
0°-60°	1644.1	77.3
0°-90°	2127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	756	756	764	759	753	72
15°	718	719	723	727	729	202
25°	643	648	658	669	678	296
35°	545	552	572	594	607	341
45°	434	446	475	510	528	335
55°	321	336	376	417	438	287
65°	210	229	273	314	336	208
75°	109	129	166	191	202	115
85°	27	34	39	38	38	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.2	759.2	759.2	759.2	759.2
2.5°	774.7	771.6	762.3	756.1	753.0
5°	756.1	756.1	764.4	759.2	753.0
7.5°	749.9	749.9	749.9	765.4	749.9
10°	741.6	742.6	743.7	749.9	743.7
12.5°	732.3	732.3	734.4	736.4	737.5
15°	717.8	718.9	723.0	727.1	729.2
17.5°	702.3	705.4	710.6	715.8	719.9
20°	683.7	687.8	694.0	702.3	706.4
22.5°	664.0	668.2	676.5	685.8	693.0
25°	643.4	647.5	657.8	669.2	677.5
27.5°	619.6	624.7	637.1	652.7	660.9
30°	595.8	602.0	616.5	634.0	643.4
32.5°	570.9	578.2	594.7	614.4	625.8
35°	545.1	552.3	572.0	593.7	607.2
37.5°	518.2	526.5	548.2	573.0	587.5
40°	490.3	499.6	524.4	551.3	567.8
42.5°	462.3	472.7	499.6	531.6	548.2
45°	434.4	445.8	474.8	509.9	528.5
47.5°	405.5	418.9	448.9	488.2	506.8
50°	377.5	391.0	425.1	465.4	484.1
52.5°	348.6	364.1	400.3	441.7	461.3
55°	320.6	336.2	375.5	416.8	437.5
57.5°	292.7	308.2	349.6	392.0	412.7
60°	264.8	281.3	324.8	366.2	387.9
62.5°	236.9	254.4	298.9	341.3	362.0
65°	210.0	228.6	273.1	314.4	336.2
67.5°	184.1	203.8	247.2	287.5	309.3
70°	158.3	177.9	220.3	259.6	281.3
72.5°	133.4	153.1	194.5	229.6	246.2
75°	108.6	129.3	166.5	191.4	201.7
77.5°	84.8	105.5	137.6	154.1	165.5
80°	63.1	80.7	103.4	115.8	120.0
82.5°	43.4	57.9	72.4	75.5	77.6
85°	26.9	34.1	39.3	38.3	38.3
87.5°	12.4	13.4	11.4	8.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)