

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: P259329

Luminaire Tested: **22CZ-LD5-20-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259329
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-LD5-20-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2036.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

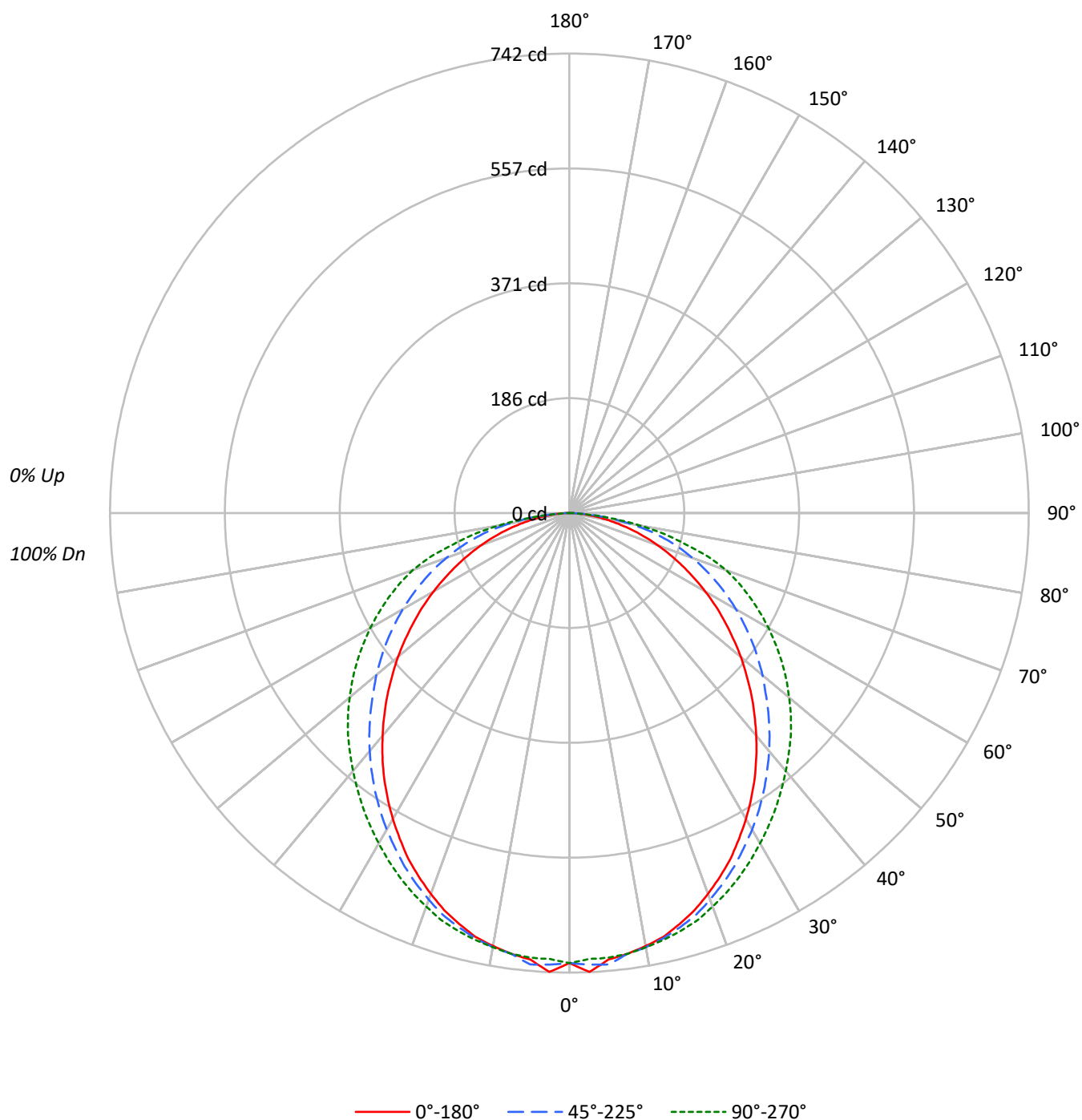
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	1956	1956	1956
5°	1955	1977	1947
10°	1940	1945	1945
15°	1914	1928	1945
20°	1874	1902	1936
25°	1828	1870	1926
30°	1772	1834	1913
35°	1714	1799	1909
40°	1649	1763	1910
45°	1582	1729	1925
50°	1513	1703	1940
55°	1440	1686	1965
60°	1364	1673	1998
65°	1280	1664	2049
70°	1192	1659	2119
75°	1081	1657	2008
80°	936	1534	1779
85°	794	1161	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.4
10°-20°	195.2	9.6
20°-30°	290.4	14.3
30°-40°	343.5	16.9
40°-50°	353.1	17.3
50°-60°	322.6	15.8
60°-70°	258.1	12.7
70°-80°	162.0	8.0
80°-90°	42.2	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°	554.6	27.2
0°-40°	898.1	44.1
0°-60°	1573.8	77.3
0°-90°	2036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	724	724	732	727	721	69
15°	687	688	692	696	698	194
25°	616	620	630	641	648	283
35°	522	529	548	568	581	326
45°	416	427	454	488	506	321
55°	307	322	359	399	419	275
65°	201	219	261	301	322	199
75°	104	124	159	183	193	110
85°	26	33	38	37	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.7	726.7	726.7	726.7	726.7
2.5°	741.6	738.6	729.7	723.7	720.8
5°	723.7	723.7	731.7	726.7	720.8
7.5°	717.8	717.8	717.8	732.7	717.8
10°	709.9	710.9	711.9	717.8	711.9
12.5°	701.0	701.0	703.0	704.9	705.9
15°	687.1	688.1	692.1	696.0	698.0
17.5°	672.3	675.2	680.2	685.1	689.1
20°	654.4	658.4	664.3	672.3	676.2
22.5°	635.6	639.6	647.5	656.4	663.4
25°	615.8	619.8	629.7	640.6	648.5
27.5°	593.1	598.0	609.9	624.7	632.7
30°	570.3	576.2	590.1	606.9	615.8
32.5°	546.5	553.5	569.3	588.1	599.0
35°	521.8	528.7	547.5	568.3	581.2
37.5°	496.0	503.9	524.7	548.5	562.4
40°	469.3	478.2	502.0	527.7	543.6
42.5°	442.6	452.5	478.2	508.9	524.7
45°	415.8	426.7	454.4	488.1	505.9
47.5°	388.1	401.0	429.7	467.3	485.1
50°	361.4	374.2	406.9	445.5	463.4
52.5°	333.7	348.5	383.2	422.8	441.6
55°	306.9	321.8	359.4	399.0	418.8
57.5°	280.2	295.0	334.6	375.2	395.0
60°	253.5	269.3	310.9	350.5	371.3
62.5°	226.7	243.6	286.1	326.7	346.5
65°	201.0	218.8	261.4	301.0	321.8
67.5°	176.2	195.0	236.6	275.2	296.0
70°	151.5	170.3	210.9	248.5	269.3
72.5°	127.7	146.5	186.1	219.8	235.6
75°	104.0	123.8	159.4	183.2	193.1
77.5°	81.2	101.0	131.7	147.5	158.4
80°	60.4	77.2	99.0	110.9	114.8
82.5°	41.6	55.4	69.3	72.3	74.3
85°	25.7	32.7	37.6	36.6	36.6
87.5°	11.9	12.9	10.9	7.9	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)