

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: P259325

Luminaire Tested: **22CZ-LD5-20-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259325
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

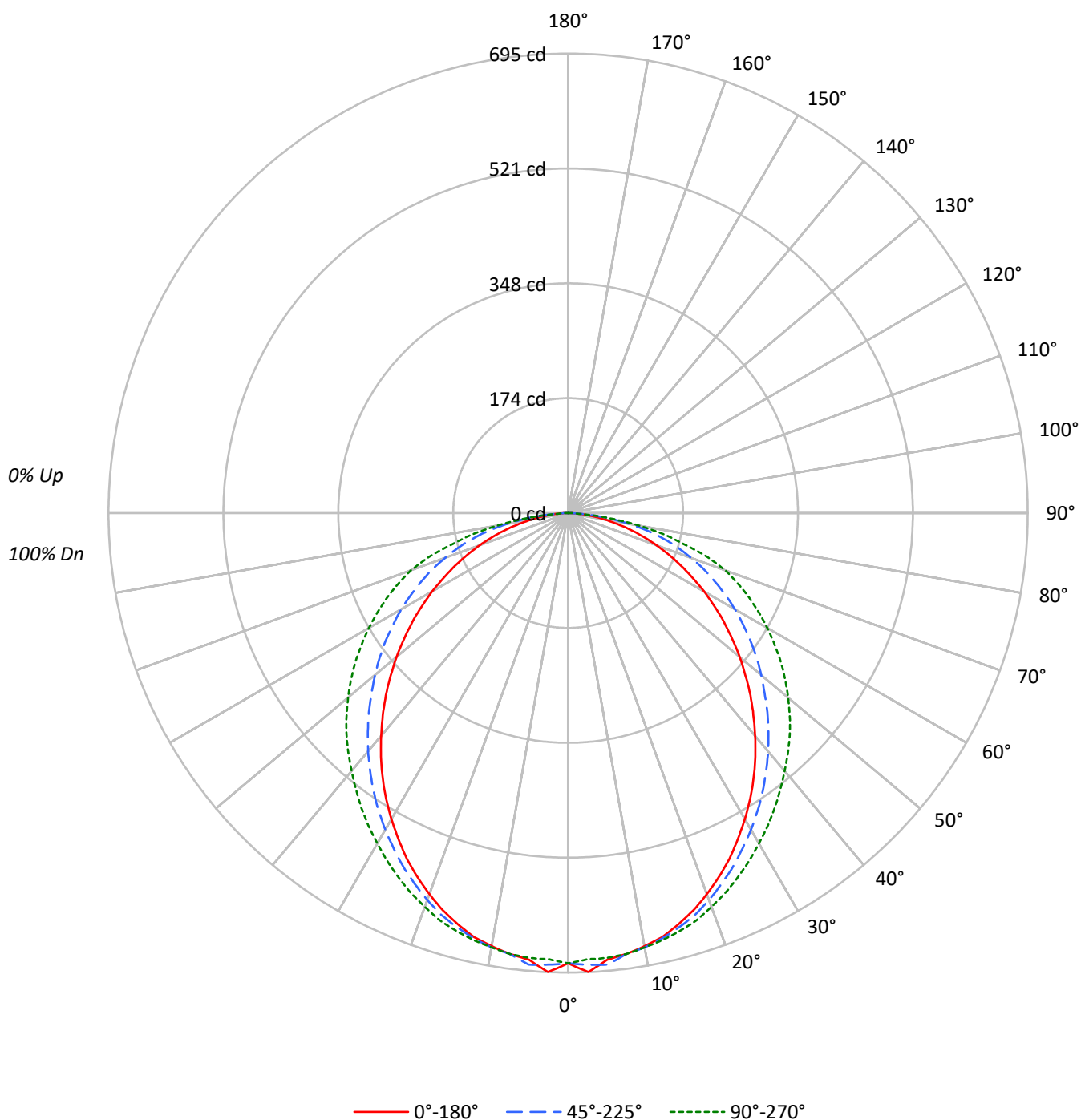
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1833	1833	1833
5°	1832	1852	1825
10°	1818	1823	1823
15°	1794	1807	1822
20°	1756	1783	1815
25°	1714	1752	1804
30°	1661	1718	1793
35°	1606	1686	1789
40°	1545	1652	1789
45°	1483	1621	1804
50°	1418	1596	1818
55°	1349	1580	1841
60°	1278	1568	1872
65°	1200	1559	1920
70°	1117	1555	1986
75°	1013	1553	1881
80°	877	1438	1667
85°	744	1090	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.4
10°-20°	183.0	9.6
20°-30°	272.2	14.3
30°-40°	321.9	16.9
40°-50°	330.9	17.3
50°-60°	302.3	15.8
60°-70°	241.9	12.7
70°-80°	151.8	8.0
80°-90°	39.5	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°	519.7	27.2
0°-40°	841.6	44.1
0°-60°	1474.8	77.3
0°-90°	1908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	678	678	686	681	676	64
15°	644	645	649	652	654	181
25°	577	581	590	600	608	265
35°	489	496	513	533	545	306
45°	390	400	426	457	474	300
55°	288	302	337	374	392	257
65°	188	205	245	282	302	187
75°	97	116	149	172	181	103
85°	24	31	35	34	34	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.0	681.0	681.0	681.0	681.0
2.5°	694.9	692.2	683.8	678.2	675.5
5°	678.2	678.2	685.7	681.0	675.5
7.5°	672.7	672.7	672.7	686.6	672.7
10°	665.3	666.2	667.1	672.7	667.1
12.5°	656.9	656.9	658.8	660.6	661.5
15°	643.9	644.8	648.6	652.3	654.1
17.5°	630.0	632.8	637.4	642.1	645.8
20°	613.3	617.0	622.6	630.0	633.7
22.5°	595.7	599.4	606.8	615.2	621.6
25°	577.1	580.8	590.1	600.3	607.7
27.5°	555.8	560.4	571.5	585.5	592.9
30°	534.4	540.0	553.0	568.8	577.1
32.5°	512.2	518.7	533.5	551.1	561.3
35°	489.0	495.5	513.1	532.6	544.6
37.5°	464.8	472.3	491.8	514.0	527.0
40°	439.8	448.1	470.4	494.5	509.4
42.5°	414.7	424.0	448.1	476.9	491.8
45°	389.7	399.9	425.9	457.4	474.1
47.5°	363.7	375.8	402.7	437.9	454.6
50°	338.7	350.7	381.3	417.5	434.2
52.5°	312.7	326.6	359.1	396.2	413.8
55°	287.6	301.5	336.8	373.9	392.5
57.5°	262.6	276.5	313.6	351.6	370.2
60°	237.5	252.4	291.3	328.5	347.9
62.5°	212.5	228.2	268.1	306.2	324.7
65°	188.4	205.1	244.9	282.1	301.5
67.5°	165.2	182.8	221.8	257.9	277.4
70°	142.0	159.6	197.6	232.9	252.4
72.5°	119.7	137.3	174.4	206.0	220.8
75°	97.4	116.0	149.4	171.6	180.9
77.5°	76.1	94.6	123.4	138.2	148.5
80°	56.6	72.4	92.8	103.9	107.6
82.5°	39.0	52.0	64.9	67.7	69.6
85°	24.1	30.6	35.3	34.3	34.3
87.5°	11.1	12.1	10.2	7.4	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)