

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: P258571

Luminaire Tested: **14CZ-LD5-25-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L93050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1914.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

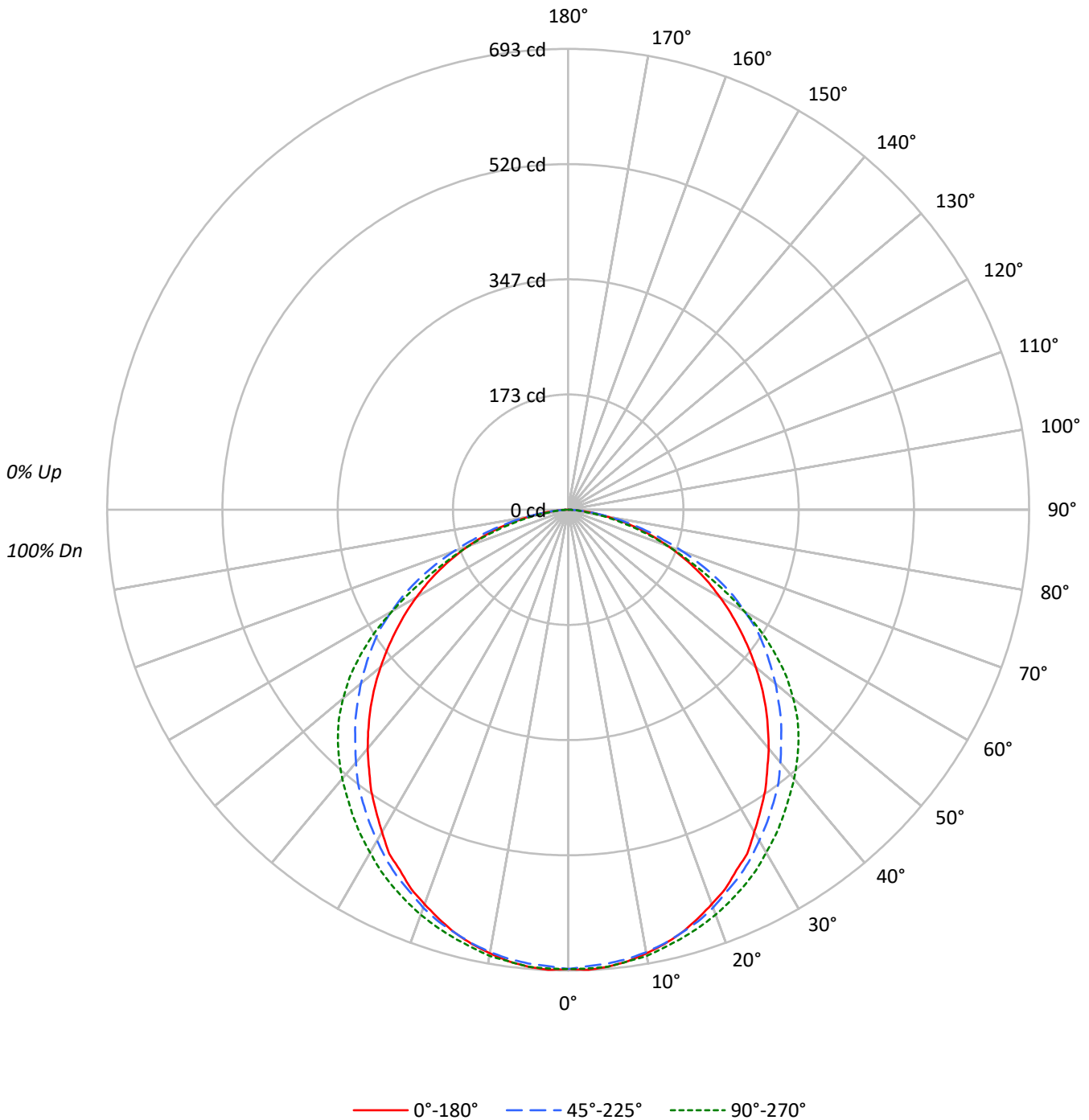
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1859	1859	1859
5°	1863	1850	1863
10°	1851	1846	1862
15°	1835	1835	1856
20°	1808	1824	1856
25°	1776	1807	1855
30°	1739	1785	1850
35°	1695	1767	1850
40°	1648	1743	1856
45°	1598	1724	1864
50°	1541	1703	1849
55°	1479	1687	1788
60°	1417	1651	1645
65°	1352	1580	1442
70°	1255	1441	1247
75°	1138	1256	1030
80°	907	995	761
85°	642	553	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.4
10°-20°	186.7	9.8
20°-30°	281.5	14.7
30°-40°	337.4	17.6
40°-50°	350.2	18.3
50°-60°	315.8	16.5
60°-70°	230.4	12.0
70°-80°	120.9	6.3
80°-90°	25.8	1.3
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°	533.6	27.9
0°-40°	871.0	45.5
0°-60°	1536.9	80.3
0°-90°	1914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	690	688	685	690	690	65
15°	659	659	659	666	666	186
25°	598	601	609	622	625	276
35°	516	522	538	558	563	322
45°	420	428	453	480	490	324
55°	315	326	360	383	381	282
65°	212	225	248	239	226	210
75°	110	125	121	105	99	115
85°	21	26	18	15	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.7	690.7	690.7	690.7	690.7
2.5°	692.6	690.7	686.9	690.7	690.7
5°	689.8	687.9	685.0	689.8	689.8
7.5°	685.0	683.2	681.3	686.0	685.0
10°	677.5	676.6	675.6	681.3	681.3
12.5°	669.0	669.0	668.1	674.7	673.7
15°	658.6	658.6	658.6	666.2	666.2
17.5°	645.4	647.3	649.2	657.7	657.7
20°	631.3	633.1	636.9	647.3	648.2
22.5°	617.1	618.1	621.8	634.1	636.9
25°	598.2	601.1	608.6	621.8	624.7
27.5°	583.1	584.1	592.6	607.7	611.4
30°	559.5	566.2	574.6	591.6	595.4
32.5°	537.8	543.5	556.7	574.6	580.3
35°	516.1	521.8	537.8	557.7	563.3
37.5°	491.6	500.1	519.0	538.8	545.4
40°	469.0	476.5	496.3	520.9	528.4
42.5°	444.4	452.0	473.7	501.0	509.5
45°	419.9	428.4	452.9	480.3	489.7
47.5°	394.4	403.9	429.3	459.5	468.0
50°	368.0	378.4	406.7	437.8	441.6
52.5°	341.6	352.9	383.1	410.5	414.2
55°	315.2	326.5	359.5	383.1	381.2
57.5°	289.7	301.9	335.9	348.2	346.3
60°	263.3	276.5	306.7	312.3	305.7
62.5°	238.7	251.0	279.3	274.6	266.1
65°	212.3	224.6	248.2	238.7	226.5
67.5°	185.9	201.0	216.1	200.0	190.6
70°	159.5	176.5	183.1	167.0	158.5
72.5°	134.0	151.9	150.0	134.0	128.3
75°	109.5	124.6	120.8	104.7	99.1
77.5°	83.0	100.0	91.5	78.3	73.6
80°	58.5	73.6	64.2	52.8	49.1
82.5°	38.7	49.1	39.6	31.1	28.3
85°	20.8	25.5	17.9	15.1	14.2
87.5°	8.5	7.5	6.6	6.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)