

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: P258599

Luminaire Tested: **14CZ-LD5-20-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258599
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-LD5-20-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2104.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

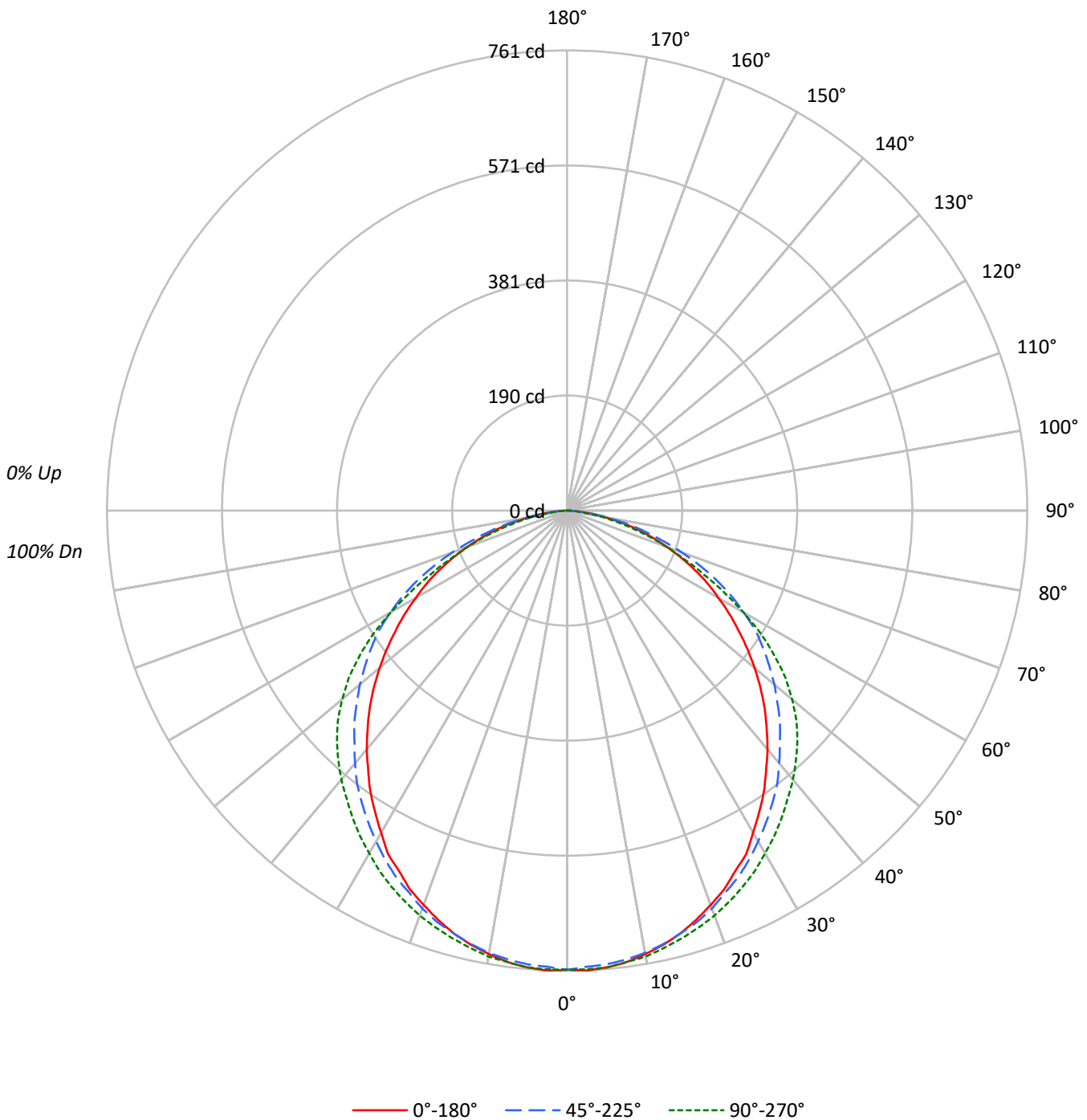
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2043	2043	2043
5°	2048	2034	2048
10°	2035	2029	2046
15°	2017	2017	2040
20°	1987	2005	2041
25°	1953	1986	2039
30°	1911	1963	2034
35°	1864	1942	2034
40°	1811	1917	2041
45°	1757	1895	2049
50°	1693	1872	2032
55°	1625	1854	1966
60°	1558	1814	1809
65°	1486	1737	1585
70°	1379	1583	1371
75°	1251	1381	1132
80°	996	1093	835
85°	704	608	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	3.4
10°-20°	205.2	9.8
20°-30°	309.4	14.7
30°-40°	370.9	17.6
40°-50°	384.9	18.3
50°-60°	347.2	16.5
60°-70°	253.2	12.0
70°-80°	132.9	6.3
80°-90°	28.3	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°	586.5	27.9
0°-40°	957.4	45.5
0°-60°	1689.5	80.3
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	758	756	753	758	758	72
15°	724	724	724	732	732	204
25°	658	661	669	684	687	303
35°	567	574	591	613	619	354
45°	462	471	498	528	538	356
55°	346	359	395	421	419	310
65°	233	247	273	262	249	231
75°	120	137	133	115	109	126
85°	23	28	20	17	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.3	759.3	759.3	759.3	759.3
2.5°	761.3	759.3	755.1	759.3	759.3
5°	758.2	756.2	753.1	758.2	758.2
7.5°	753.1	751.0	748.9	754.1	753.1
10°	744.8	743.7	742.7	748.9	748.9
12.5°	735.4	735.4	734.4	741.6	740.6
15°	724.0	724.0	724.0	732.3	732.3
17.5°	709.5	711.6	713.6	723.0	723.0
20°	693.9	696.0	700.2	711.6	712.6
22.5°	678.4	679.4	683.6	697.0	700.2
25°	657.6	660.7	669.0	683.6	686.7
27.5°	641.0	642.1	651.4	668.0	672.1
30°	615.1	622.4	631.7	650.4	654.5
32.5°	591.2	597.5	612.0	631.7	637.9
35°	567.4	573.6	591.2	613.0	619.2
37.5°	540.4	549.7	570.5	592.3	599.5
40°	515.5	523.8	545.6	572.6	580.9
42.5°	488.5	496.8	520.7	550.8	560.1
45°	461.6	470.9	497.9	528.0	538.3
47.5°	433.6	443.9	472.0	505.1	514.5
50°	404.5	415.9	447.1	481.3	485.4
52.5°	375.5	387.9	421.1	451.2	455.4
55°	346.4	358.9	395.2	421.1	419.1
57.5°	318.4	331.9	369.3	382.7	380.7
60°	289.4	303.9	337.1	343.3	336.1
62.5°	262.4	275.9	307.0	301.8	292.5
65°	233.4	246.9	272.8	262.4	248.9
67.5°	204.3	220.9	237.5	219.9	209.5
70°	175.3	194.0	201.2	183.6	174.3
72.5°	147.3	167.0	164.9	147.3	141.1
75°	120.3	136.9	132.8	115.1	108.9
77.5°	91.3	109.9	100.6	86.1	80.9
80°	64.3	80.9	70.5	58.1	53.9
82.5°	42.5	53.9	43.6	34.2	31.1
85°	22.8	28.0	19.7	16.6	15.6
87.5°	9.3	8.3	7.3	7.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)