

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: P258956

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2050.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

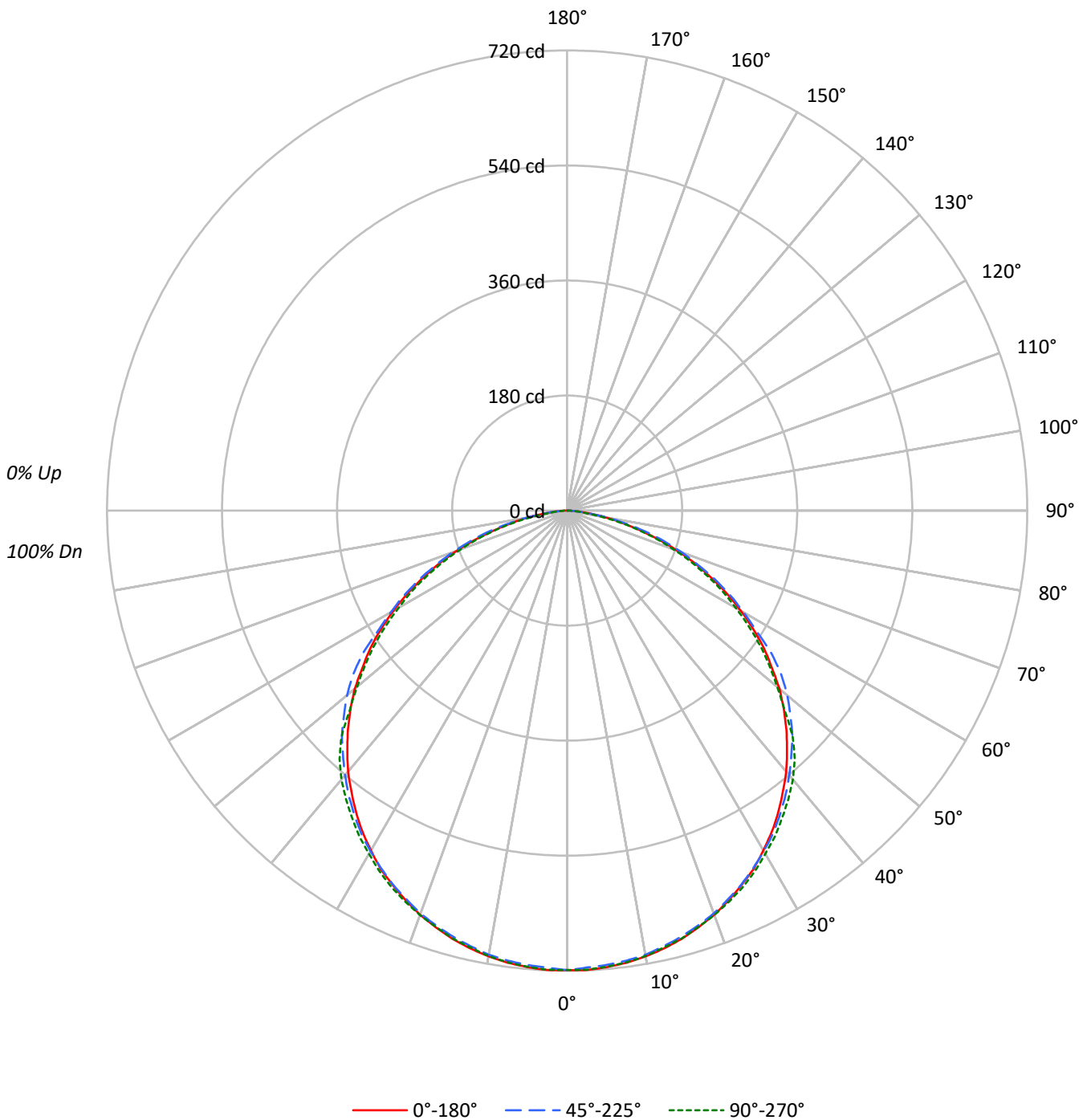
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1935	1935	1935
5°	1937	1928	1935
10°	1935	1928	1934
15°	1932	1923	1930
20°	1927	1921	1929
25°	1918	1916	1930
30°	1908	1912	1927
35°	1892	1907	1927
40°	1873	1899	1929
45°	1846	1897	1899
50°	1815	1883	1796
55°	1765	1834	1730
60°	1690	1715	1640
65°	1583	1625	1540
70°	1441	1498	1393
75°	1202	1313	1181
80°	953	1004	818
85°	618	537	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.3
10°-20°	195.5	9.5
20°-30°	298.4	14.6
30°-40°	363.8	17.7
40°-50°	380.9	18.6
50°-60°	338.9	16.5
60°-70°	250.1	12.2
70°-80°	129.2	6.3
80°-90°	25.1	1.2
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°	561.9	27.4
0°-40°	925.8	45.2
0°-60°	1645.6	80.3
0°-90°	2050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	717	716	714	716	716	68
15°	694	693	690	693	693	196
25°	646	646	645	650	650	298
35°	576	577	581	587	587	360
45°	485	488	498	503	499	374
55°	376	384	391	374	369	335
65°	249	266	255	247	242	246
75°	116	128	126	116	114	125
85°	20	22	17	16	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.9	718.9	718.9	718.9	718.9
2.5°	719.6	718.9	715.6	718.9	718.9
5°	716.9	716.3	713.6	716.3	716.3
7.5°	713.6	712.9	710.3	712.9	712.9
10°	708.3	707.6	705.6	708.3	707.6
12.5°	701.6	701.6	698.2	701.6	700.2
15°	693.6	692.9	690.2	692.9	692.9
17.5°	683.5	682.9	680.9	684.2	682.9
20°	672.8	672.2	670.8	674.2	673.5
22.5°	660.1	660.1	658.1	662.1	662.1
25°	646.1	646.1	645.4	650.1	650.1
27.5°	632.1	630.7	630.7	635.4	636.1
30°	614.0	614.0	615.4	620.7	620.1
32.5°	596.0	596.7	599.3	604.0	604.7
35°	576.0	576.6	580.6	587.3	586.6
37.5°	554.6	556.6	561.3	568.6	568.6
40°	533.2	534.5	540.5	548.6	549.2
42.5°	509.1	512.5	519.2	528.5	527.2
45°	485.1	488.4	498.4	503.1	499.1
47.5°	459.7	463.7	473.7	474.4	461.0
50°	433.6	438.3	449.7	436.3	429.0
52.5°	403.6	412.3	422.3	403.6	398.9
55°	376.2	384.2	390.9	374.2	368.8
57.5°	345.4	356.1	351.5	343.4	336.8
60°	314.0	325.4	318.7	310.7	304.7
62.5°	282.0	294.7	288.0	280.0	274.6
65°	248.6	265.9	255.2	246.6	241.9
67.5°	217.2	233.9	221.2	214.5	209.8
70°	183.1	197.1	190.4	181.7	177.1
72.5°	149.7	160.4	158.4	149.0	145.7
75°	115.6	127.6	126.3	116.3	113.6
77.5°	86.9	98.2	94.2	86.2	82.9
80°	61.5	68.8	64.8	55.5	52.8
82.5°	37.4	43.4	36.7	31.4	28.7
85°	20.0	22.0	17.4	16.0	15.4
87.5°	7.3	7.3	7.3	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)