

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: P259025

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259025
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-LD5-39-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 73.7 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

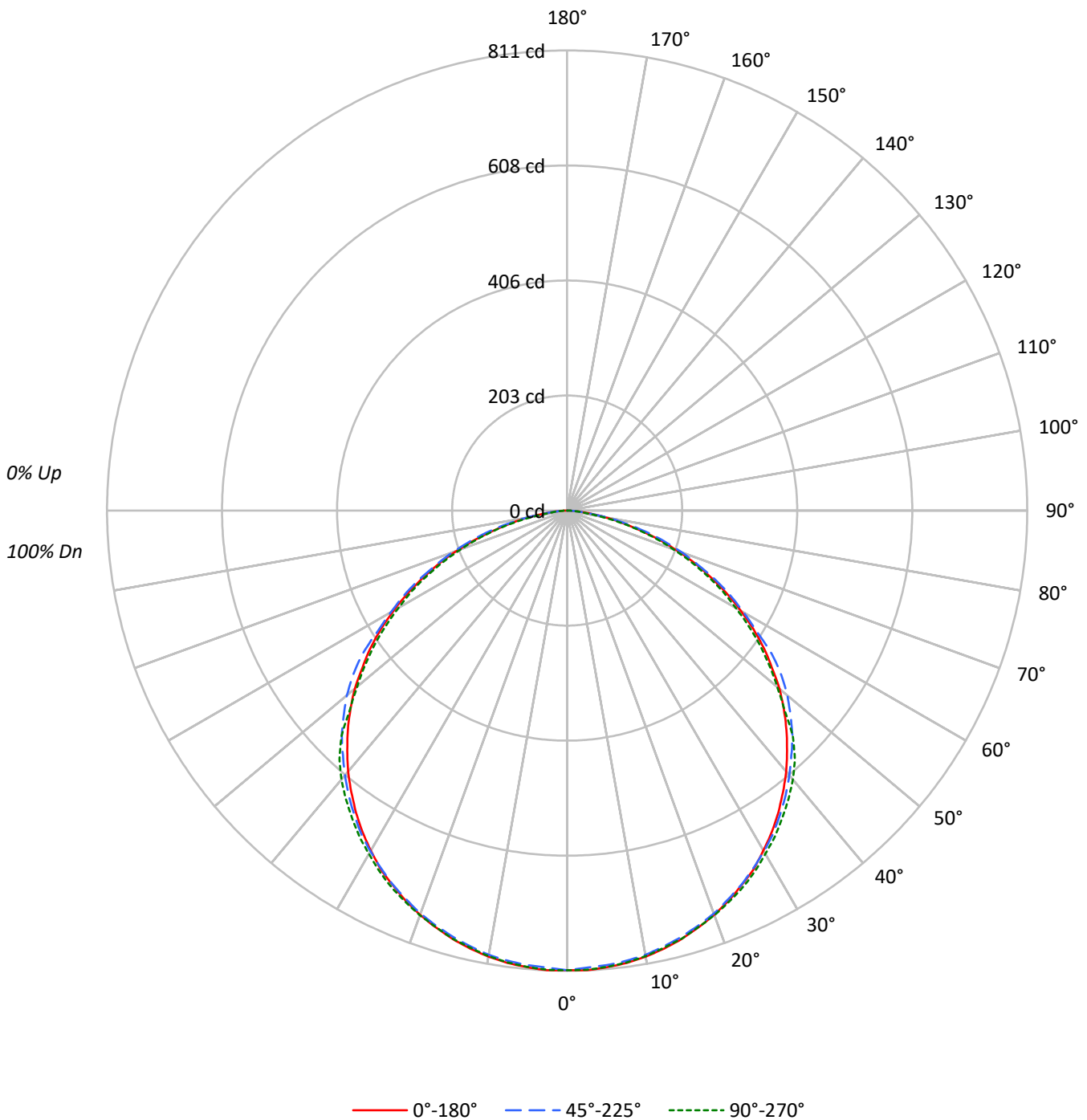
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2180	2180	2180
5°	2182	2172	2180
10°	2181	2173	2179
15°	2177	2167	2175
20°	2171	2165	2173
25°	2162	2159	2175
30°	2150	2155	2171
35°	2132	2149	2172
40°	2111	2140	2174
45°	2080	2138	2140
50°	2045	2121	2024
55°	1989	2066	1950
60°	1905	1933	1848
65°	1784	1831	1736
70°	1623	1688	1570
75°	1355	1480	1331
80°	1074	1131	922
85°	698	605	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.3
10°-20°	220.3	9.5
20°-30°	336.3	14.6
30°-40°	410.0	17.7
40°-50°	429.3	18.6
50°-60°	381.9	16.5
60°-70°	281.8	12.2
70°-80°	145.6	6.3
80°-90°	28.3	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°	633.2	27.4
0°-40°	1043.2	45.2
0°-60°	1854.4	80.3
0°-90°	2310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	808	807	804	807	807	77
15°	782	781	778	781	781	221
25°	728	728	727	733	733	336
35°	649	650	654	662	661	406
45°	547	550	562	567	562	421
55°	424	433	440	422	416	378
65°	280	300	288	278	273	278
75°	130	144	142	131	128	141
85°	23	25	20	18	17	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.1	810.1	810.1	810.1	810.1
2.5°	810.9	810.1	806.4	810.1	810.1
5°	807.9	807.1	804.1	807.1	807.1
7.5°	804.1	803.3	800.3	803.3	803.3
10°	798.1	797.3	795.1	798.1	797.3
12.5°	790.6	790.6	786.8	790.6	789.0
15°	781.5	780.8	777.8	780.8	780.8
17.5°	770.2	769.5	767.2	771.0	769.5
20°	758.2	757.4	755.9	759.7	758.9
22.5°	743.9	743.9	741.6	746.1	746.1
25°	728.1	728.1	727.3	732.6	732.6
27.5°	712.2	710.7	710.7	716.0	716.8
30°	691.9	691.9	693.4	699.4	698.7
32.5°	671.6	672.3	675.4	680.6	681.4
35°	649.0	649.8	654.3	661.8	661.1
37.5°	624.9	627.2	632.4	640.7	640.7
40°	600.8	602.3	609.1	618.1	618.9
42.5°	573.7	577.5	585.0	595.5	594.0
45°	546.6	550.4	561.7	566.9	562.4
47.5°	518.0	522.5	533.8	534.6	519.5
50°	488.6	493.9	506.7	491.6	483.4
52.5°	454.8	464.5	475.8	454.8	449.5
55°	423.9	432.9	440.4	421.6	415.6
57.5°	389.3	401.3	396.0	387.0	379.5
60°	353.9	366.7	359.1	350.1	343.3
62.5°	317.7	332.0	324.5	315.5	309.4
65°	280.1	299.7	287.6	277.8	272.6
67.5°	244.7	263.5	249.2	241.7	236.4
70°	206.3	222.1	214.6	204.8	199.5
72.5°	168.7	180.7	178.4	167.9	164.1
75°	130.3	143.8	142.3	131.0	128.0
77.5°	97.9	110.7	106.2	97.1	93.4
80°	69.3	77.5	73.0	62.5	59.5
82.5°	42.2	48.9	41.4	35.4	32.4
85°	22.6	24.8	19.6	18.1	17.3
87.5°	8.3	8.3	8.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)