

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: P275816

Luminaire Tested: **14CZ2-35-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

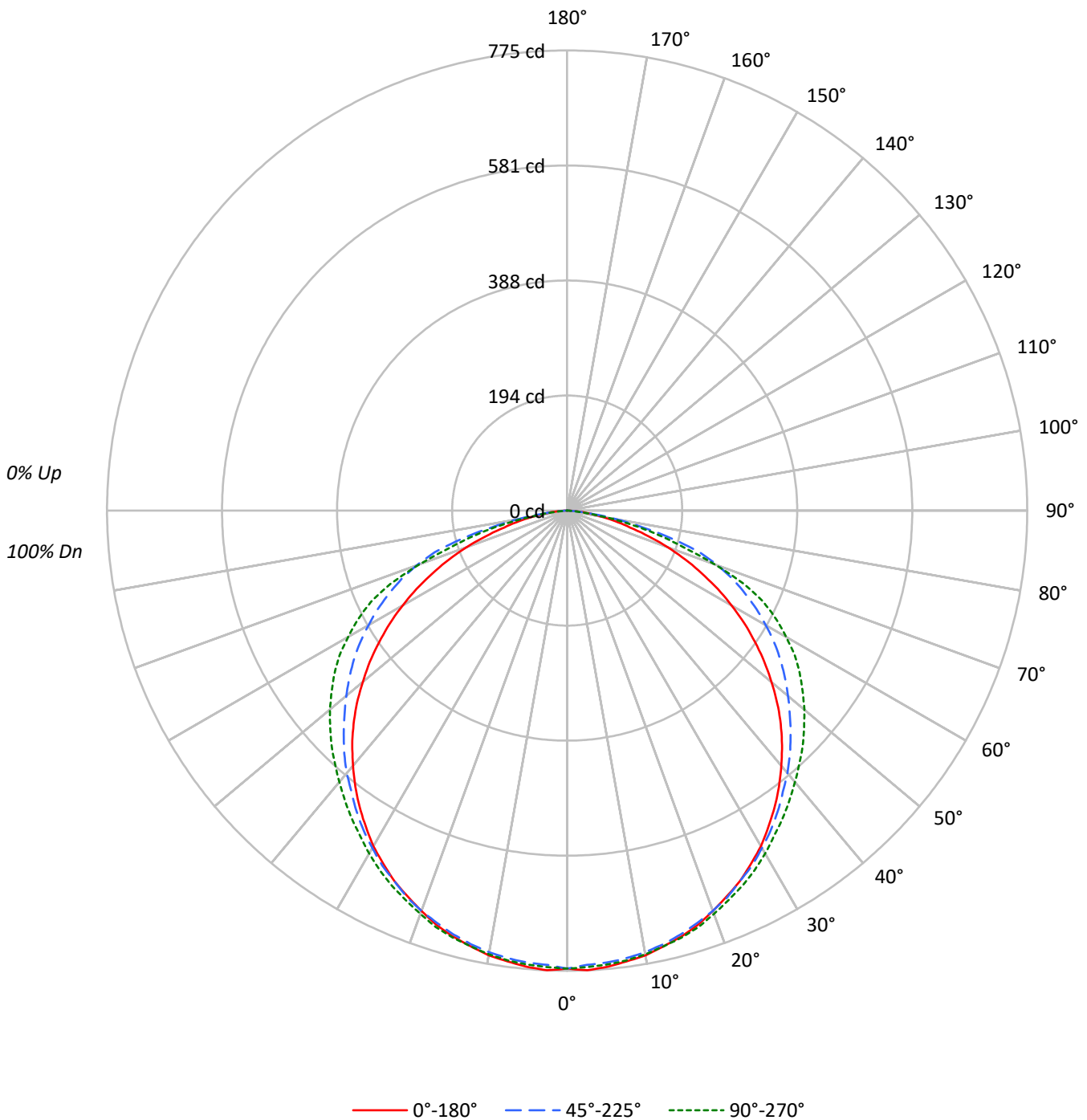
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2076	2076	2076
5°	2083	2064	2074
10°	2078	2064	2073
15°	2069	2059	2074
20°	2054	2054	2070
25°	2045	2045	2071
30°	2028	2039	2073
35°	2002	2032	2079
40°	1971	2028	2097
45°	1936	2025	2135
50°	1882	2033	2183
55°	1814	2058	2244
60°	1722	2081	2293
65°	1591	2106	2324
70°	1415	2122	2079
75°	1141	1907	1664
80°	891	1337	1086
85°	611	389	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.2
10°-20°	209.5	9.1
20°-30°	318.9	13.8
30°-40°	388.5	16.9
40°-50°	412.2	17.9
50°-60°	389.0	16.9
60°-70°	314.1	13.6
70°-80°	170.4	7.4
80°-90°	27.6	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°	601.4	26.1
0°-40°	989.9	43.0
0°-60°	1791.0	77.8
0°-90°	2303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	771	770	764	770	768	73
15°	743	741	739	744	744	210
25°	689	687	689	696	698	317
35°	610	613	618	631	633	381
45°	509	516	532	552	561	392
55°	387	403	439	468	478	345
65°	250	280	331	358	365	248
75°	110	160	183	165	160	120
85°	20	22	13	11	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.3	771.3	771.3	771.3	771.3
2.5°	774.9	771.3	765.9	771.3	769.5
5°	771.3	769.5	764.1	769.5	767.7
7.5°	765.9	765.9	760.5	764.1	764.1
10°	760.5	758.7	755.2	760.5	758.7
12.5°	751.6	749.8	748.0	753.4	751.6
15°	742.6	740.8	739.0	744.4	744.4
17.5°	731.8	730.0	728.2	735.4	735.4
20°	717.4	717.4	717.4	724.6	722.8
22.5°	703.0	703.0	704.8	712.0	710.2
25°	688.6	686.8	688.6	695.8	697.6
27.5°	670.6	672.4	674.2	681.4	683.2
30°	652.7	654.5	656.3	665.3	667.1
32.5°	631.1	634.7	638.3	649.1	649.1
35°	609.5	613.1	618.5	631.1	632.9
37.5°	586.1	589.7	596.9	611.3	614.9
40°	561.0	566.4	577.2	591.5	596.9
42.5°	535.8	543.0	555.6	571.8	578.9
45°	508.8	516.0	532.2	552.0	561.0
47.5°	480.1	489.1	508.8	534.0	541.2
50°	449.5	462.1	485.5	512.4	521.4
52.5°	418.9	433.3	462.1	490.8	499.8
55°	386.6	402.7	438.7	467.5	478.3
57.5°	354.2	372.2	413.5	444.1	454.9
60°	320.0	341.6	386.6	417.1	426.1
62.5°	285.9	311.1	359.6	390.2	397.4
65°	249.9	280.5	330.8	357.8	365.0
67.5°	215.8	251.7	302.1	321.8	321.8
70°	179.8	219.4	269.7	275.1	264.3
72.5°	143.8	188.8	233.7	214.0	205.0
75°	109.7	160.0	183.4	165.4	160.0
77.5°	82.7	129.5	129.5	118.7	115.1
80°	57.5	98.9	86.3	75.5	70.1
82.5°	37.8	55.7	44.9	36.0	30.6
85°	19.8	21.6	12.6	10.8	9.0
87.5°	7.2	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)