

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: P275885

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275885  
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: 14CZ2-44-RDP-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2361.0 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

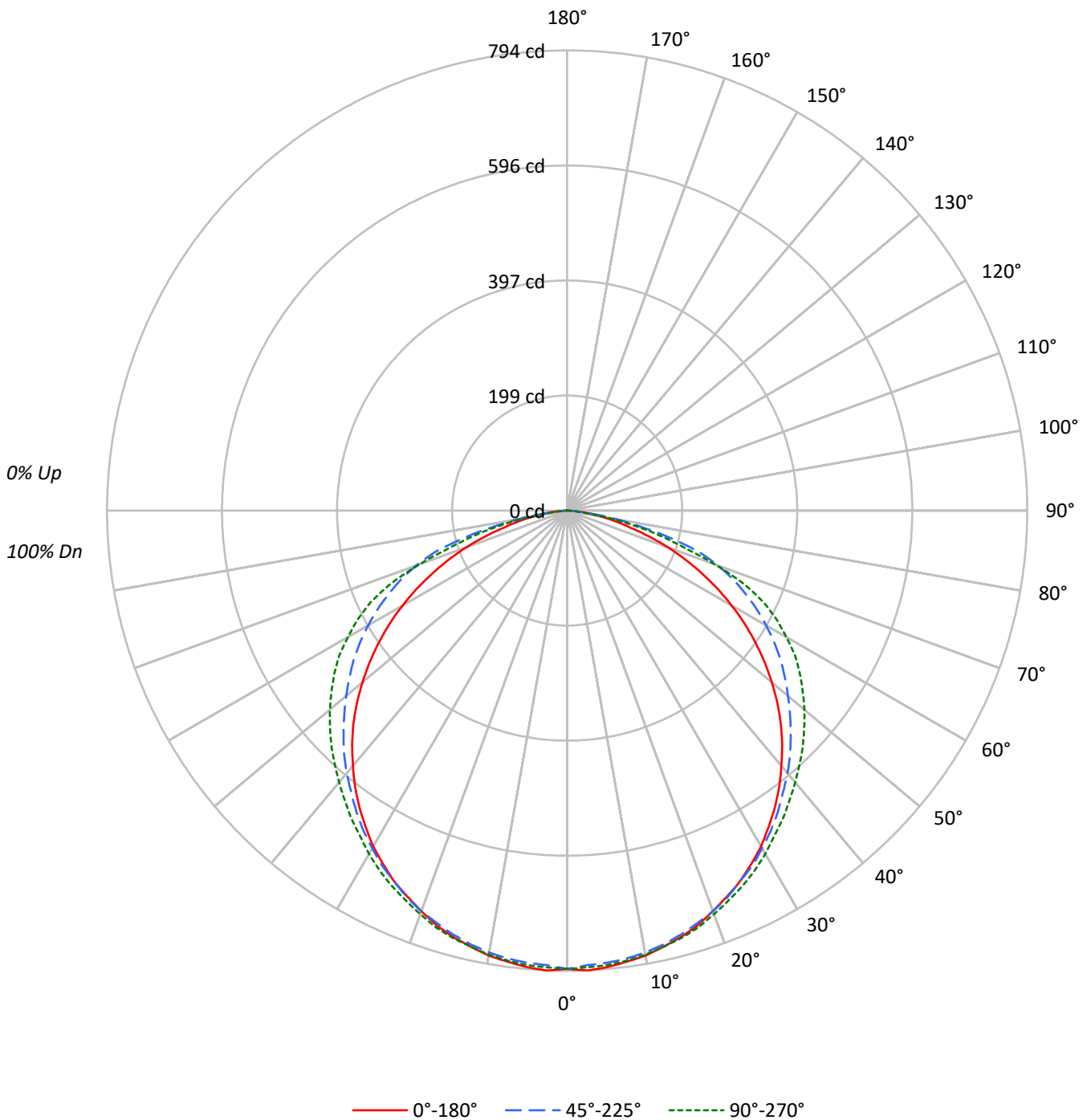
Input Watts (W): 35.712  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2128	2128	2128
5°	2136	2116	2126
10°	2131	2115	2126
15°	2121	2111	2126
20°	2106	2106	2122
25°	2096	2096	2124
30°	2079	2091	2125
35°	2053	2083	2131
40°	2020	2079	2150
45°	1985	2076	2189
50°	1929	2084	2238
55°	1859	2110	2300
60°	1766	2133	2351
65°	1631	2160	2383
70°	1450	2175	2132
75°	1169	1955	1706
80°	914	1371	1114
85°	627	398	284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.8	3.2
10°-20°	214.7	9.1
20°-30°	327.0	13.8
30°-40°	398.3	16.9
40°-50°	422.5	17.9
50°-60°	398.8	16.9
60°-70°	322.0	13.6
70°-80°	174.7	7.4
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°	616.6	26.1
0°-40°	1014.8	43.0
0°-60°	1836.1	77.8
0°-90°	2361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	791	789	783	789	787	75
15°	761	759	758	763	763	215
25°	706	704	706	713	715	325
35°	625	629	634	647	649	391
45°	522	529	546	566	575	402
55°	396	413	450	479	490	354
65°	256	288	339	367	374	254
75°	112	164	188	170	164	123
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	790.8	790.8	790.8	790.8	790.8
2.5°	794.4	790.8	785.2	790.8	788.9
5°	790.8	788.9	783.4	788.9	787.1
7.5°	785.2	785.2	779.7	783.4	783.4
10°	779.7	777.9	774.2	779.7	777.9
12.5°	770.5	768.6	766.8	772.3	770.5
15°	761.3	759.4	757.6	763.1	763.1
17.5°	750.2	748.4	746.5	753.9	753.9
20°	735.5	735.5	735.5	742.8	741.0
22.5°	720.7	720.7	722.6	729.9	728.1
25°	706.0	704.1	706.0	713.3	715.2
27.5°	687.5	689.4	691.2	698.6	700.4
30°	669.1	670.9	672.8	682.0	683.9
32.5°	647.0	650.7	654.4	665.4	665.4
35°	624.9	628.6	634.1	647.0	648.8
37.5°	600.9	604.6	612.0	626.7	630.4
40°	575.1	580.6	591.7	606.4	612.0
42.5°	549.3	556.7	569.6	586.2	593.5
45°	521.6	529.0	545.6	565.9	575.1
47.5°	492.2	501.4	521.6	547.4	554.8
50°	460.8	473.7	497.7	525.3	534.5
52.5°	429.5	444.2	473.7	503.2	512.4
55°	396.3	412.9	449.8	479.2	490.3
57.5°	363.1	381.6	424.0	455.3	466.3
60°	328.1	350.2	396.3	427.6	436.9
62.5°	293.1	318.9	368.7	400.0	407.4
65°	256.2	287.5	339.2	366.8	374.2
67.5°	221.2	258.1	309.7	329.9	329.9
70°	184.3	224.9	276.5	282.0	271.0
72.5°	147.5	193.5	239.6	219.3	210.1
75°	112.4	164.1	188.0	169.6	164.1
77.5°	84.8	132.7	132.7	121.7	118.0
80°	59.0	101.4	88.5	77.4	71.9
82.5°	38.7	57.1	46.1	36.9	31.3
85°	20.3	22.1	12.9	11.1	9.2
87.5°	7.4	3.7	1.8	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)