

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: P275781

Luminaire Tested: **14CZ2-44-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275781  
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-L93050-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2533.0 lumens  
Efficiency: N/A  
Efficacy: 69.3 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

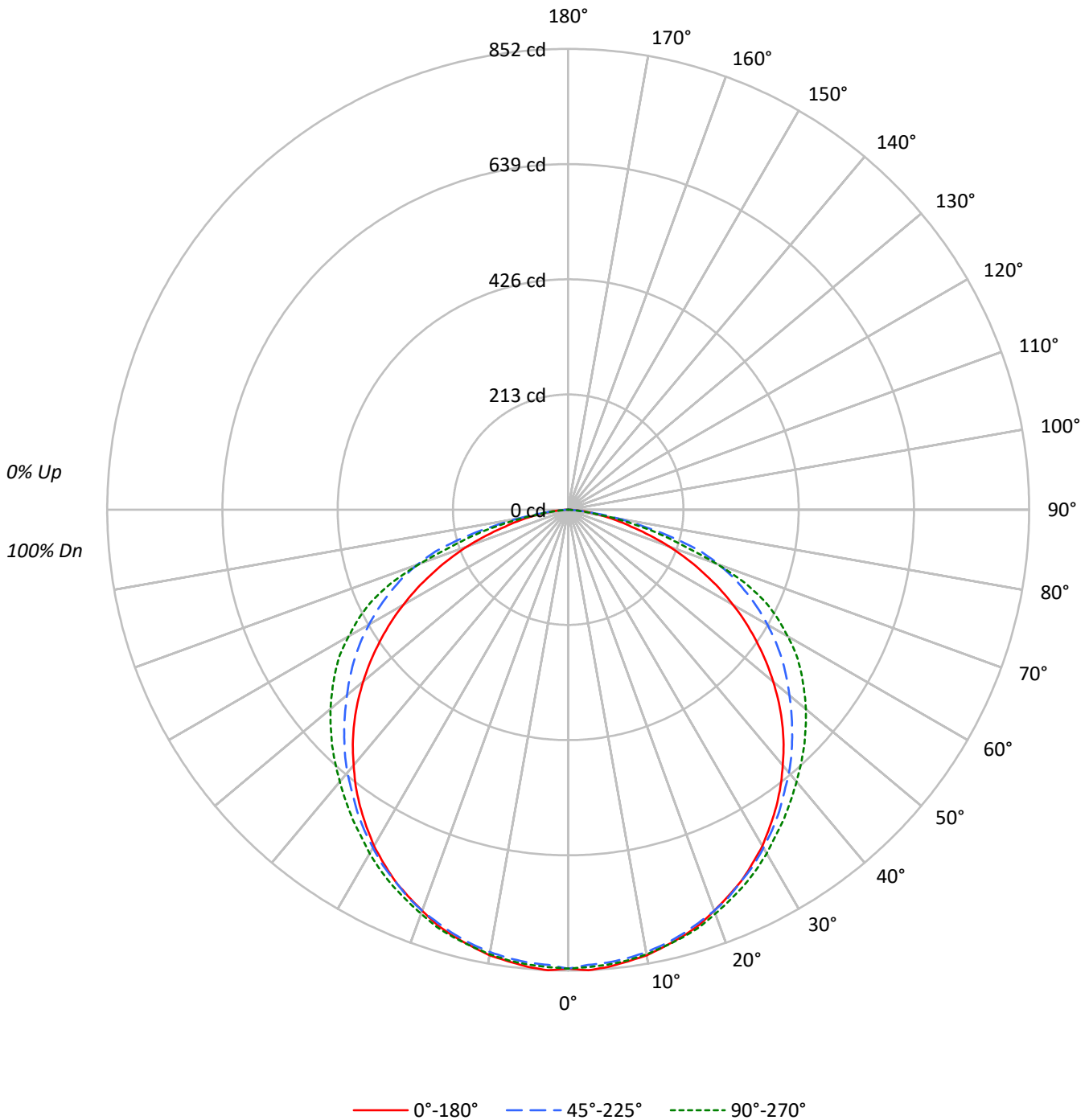
Input Watts (W): 36.549  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2283	2283	2283
5°	2292	2270	2281
10°	2286	2270	2280
15°	2275	2264	2281
20°	2259	2259	2277
25°	2249	2249	2278
30°	2230	2243	2280
35°	2202	2235	2287
40°	2167	2230	2306
45°	2130	2228	2348
50°	2070	2235	2401
55°	1995	2264	2468
60°	1894	2288	2523
65°	1750	2317	2556
70°	1556	2334	2287
75°	1254	2097	1830
80°	981	1471	1195
85°	673	426	306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	3.2
10°-20°	230.4	9.1
20°-30°	350.8	13.8
30°-40°	427.3	16.9
40°-50°	453.3	17.9
50°-60°	427.8	16.9
60°-70°	345.4	13.6
70°-80°	187.4	7.4
80°-90°	30.3	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°	661.5	26.1
0°-40°	1088.7	43.0
0°-60°	1969.9	77.8
0°-90°	2533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	848	846	840	846	844	81
15°	817	815	813	819	819	230
25°	757	755	757	765	767	349
35°	670	674	680	694	696	419
45°	560	568	585	607	617	431
55°	425	443	482	514	526	380
65°	275	308	364	394	401	272
75°	121	176	202	182	176	132
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	848.4	848.4	848.4	848.4	848.4
2.5°	852.3	848.4	842.4	848.4	846.4
5°	848.4	846.4	840.5	846.4	844.4
7.5°	842.4	842.4	836.5	840.5	840.5
10°	836.5	834.5	830.6	836.5	834.5
12.5°	826.6	824.6	822.7	828.6	826.6
15°	816.7	814.7	812.8	818.7	818.7
17.5°	804.9	802.9	800.9	808.8	808.8
20°	789.0	789.0	789.0	797.0	795.0
22.5°	773.2	773.2	775.2	783.1	781.1
25°	757.4	755.4	757.4	765.3	767.3
27.5°	737.6	739.6	741.6	749.5	751.5
30°	717.8	719.8	721.8	731.7	733.7
32.5°	694.1	698.1	702.0	713.9	713.9
35°	670.4	674.3	680.3	694.1	696.1
37.5°	644.7	648.6	656.5	672.4	676.3
40°	617.0	622.9	634.8	650.6	656.5
42.5°	589.3	597.2	611.1	628.9	636.8
45°	559.6	567.6	585.4	607.1	617.0
47.5°	528.0	537.9	559.6	587.3	595.2
50°	494.4	508.2	533.9	563.6	573.5
52.5°	460.8	476.6	508.2	539.9	549.8
55°	425.2	443.0	482.5	514.2	526.0
57.5°	389.6	409.4	454.8	488.5	500.3
60°	352.0	375.7	425.2	458.8	468.7
62.5°	314.4	342.1	395.5	429.1	437.0
65°	274.9	308.5	363.9	393.5	401.4
67.5°	237.3	276.9	332.2	354.0	354.0
70°	197.8	241.3	296.6	302.6	290.7
72.5°	158.2	207.6	257.1	235.3	225.4
75°	120.6	176.0	201.7	181.9	176.0
77.5°	91.0	142.4	142.4	130.5	126.6
80°	63.3	108.8	94.9	83.1	77.1
82.5°	41.5	61.3	49.4	39.6	33.6
85°	21.8	23.7	13.8	11.9	9.9
87.5°	7.9	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)