

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: P275883

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275883  
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-2700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2162.0 lumens  
Efficiency: N/A  
Efficacy: 60.9 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

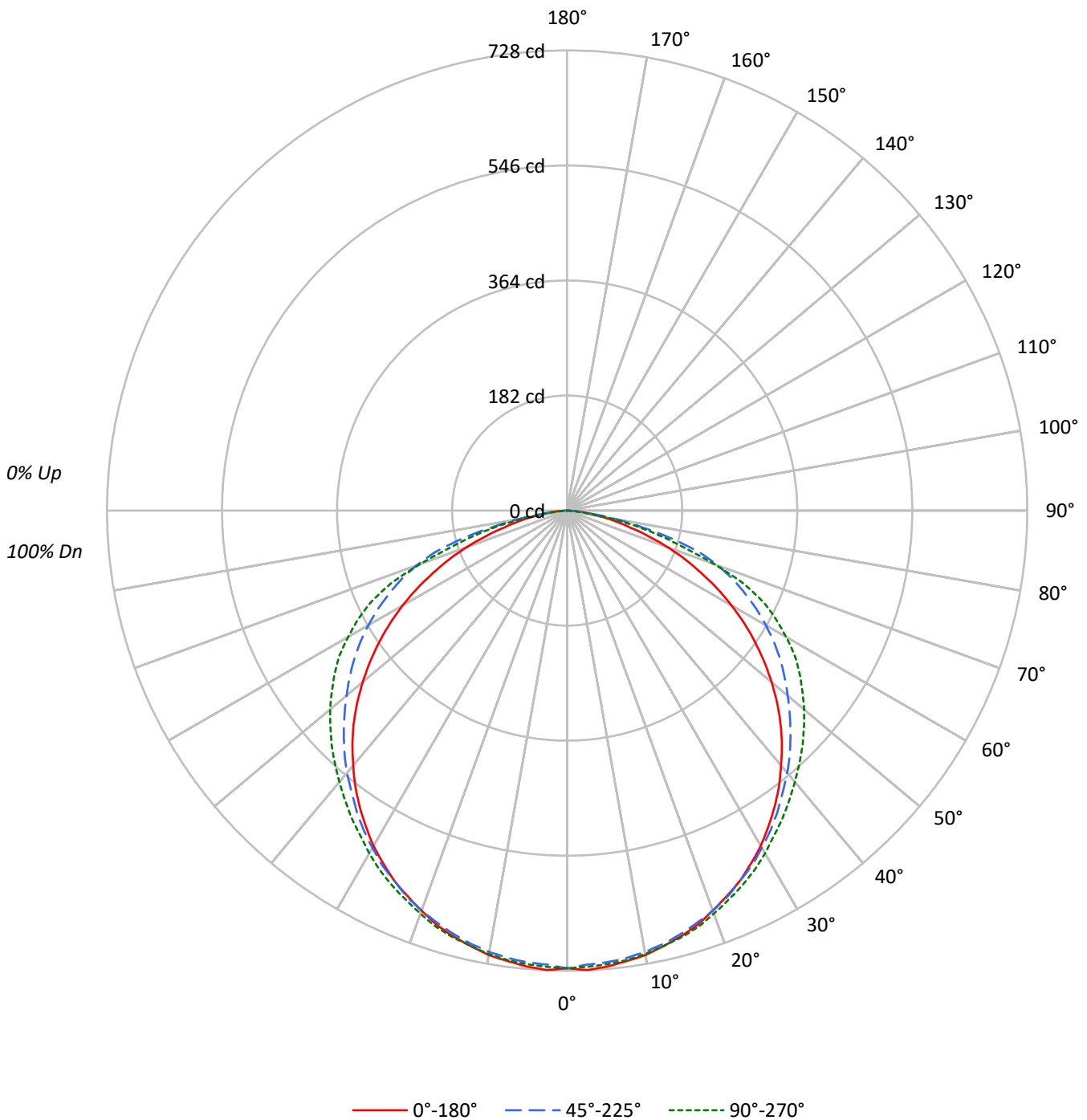
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275883

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L92765-W2A1-U-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P275883

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L92765-W2A1-U-2700K

**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°	1949	1949	1949
5°	1956	1938	1947
10°	1951	1937	1946
15°	1942	1933	1947
20°	1929	1929	1943
25°	1920	1920	1945
30°	1904	1914	1946
35°	1880	1907	1952
40°	1850	1903	1969
45°	1818	1901	2004
50°	1767	1908	2049
55°	1703	1932	2107
60°	1617	1953	2153
65°	1494	1978	2181
70°	1328	1992	1952
75°	1071	1790	1562
80°	837	1255	1020
85°	574	364	259



TEST NUMBER: P275883

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L92765-W2A1-U-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	3.2
10°-20°	196.6	9.1
20°-30°	299.4	13.8
30°-40°	364.7	16.9
40°-50°	386.9	17.9
50°-60°	365.2	16.9
60°-70°	294.8	13.6
70°-80°	159.9	7.4
80°-90°	25.9	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°	564.6	26.1
0°-40°	929.3	43.0
0°-60°	1681.4	77.8
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	724	722	717	722	721	69
15°	697	695	694	699	699	197
25°	646	645	646	653	655	298
35°	572	576	581	592	594	358
45°	478	484	500	518	527	368
55°	363	378	412	439	449	324
65°	235	263	311	336	343	232
75°	103	150	172	155	150	112
85°	19	20	12	10	8	24
90°	0	0	0	0	0	



TEST NUMBER: P275883

CATALOG NUMBER: 14CZ2-44-RDP-UNV-L92765-W2A1-U-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	724.1	724.1	724.1	724.1	724.1
2.5°	727.5	724.1	719.0	724.1	722.4
5°	724.1	722.4	717.4	722.4	720.7
7.5°	719.0	719.0	714.0	717.4	717.4
10°	714.0	712.3	708.9	714.0	712.3
12.5°	705.5	703.9	702.2	707.2	705.5
15°	697.1	695.4	693.7	698.8	698.8
17.5°	687.0	685.3	683.6	690.4	690.4
20°	673.5	673.5	673.5	680.2	678.5
22.5°	660.0	660.0	661.7	668.4	666.7
25°	646.5	644.8	646.5	653.2	654.9
27.5°	629.6	631.3	633.0	639.7	641.4
30°	612.7	614.4	616.1	624.5	626.2
32.5°	592.5	595.8	599.2	609.3	609.3
35°	572.2	575.6	580.6	592.5	594.1
37.5°	550.3	553.6	560.4	573.9	577.3
40°	526.6	531.7	541.8	555.3	560.4
42.5°	503.0	509.7	521.6	536.8	543.5
45°	477.7	484.4	499.6	518.2	526.6
47.5°	450.7	459.1	477.7	501.3	508.1
50°	422.0	433.8	455.7	481.1	489.5
52.5°	393.3	406.8	433.8	460.8	469.2
55°	362.9	378.1	411.8	438.9	449.0
57.5°	332.5	349.4	388.2	416.9	427.0
60°	300.4	320.7	362.9	391.6	400.0
62.5°	268.4	292.0	337.6	366.3	373.0
65°	234.6	263.3	310.6	335.9	342.6
67.5°	202.5	236.3	283.6	302.1	302.1
70°	168.8	205.9	253.2	258.2	248.1
72.5°	135.0	177.2	219.4	200.9	192.4
75°	103.0	150.2	172.2	155.3	150.2
77.5°	77.6	121.5	121.5	111.4	108.0
80°	54.0	92.8	81.0	70.9	65.8
82.5°	35.4	52.3	42.2	33.8	28.7
85°	18.6	20.3	11.8	10.1	8.4
87.5°	6.8	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)