

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: P275877

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275877  
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: 14CZ2-39-RDP-UNV-L92765-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: 2180.0 lumens  
Efficiency: N/A  
Efficacy: 69.6 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

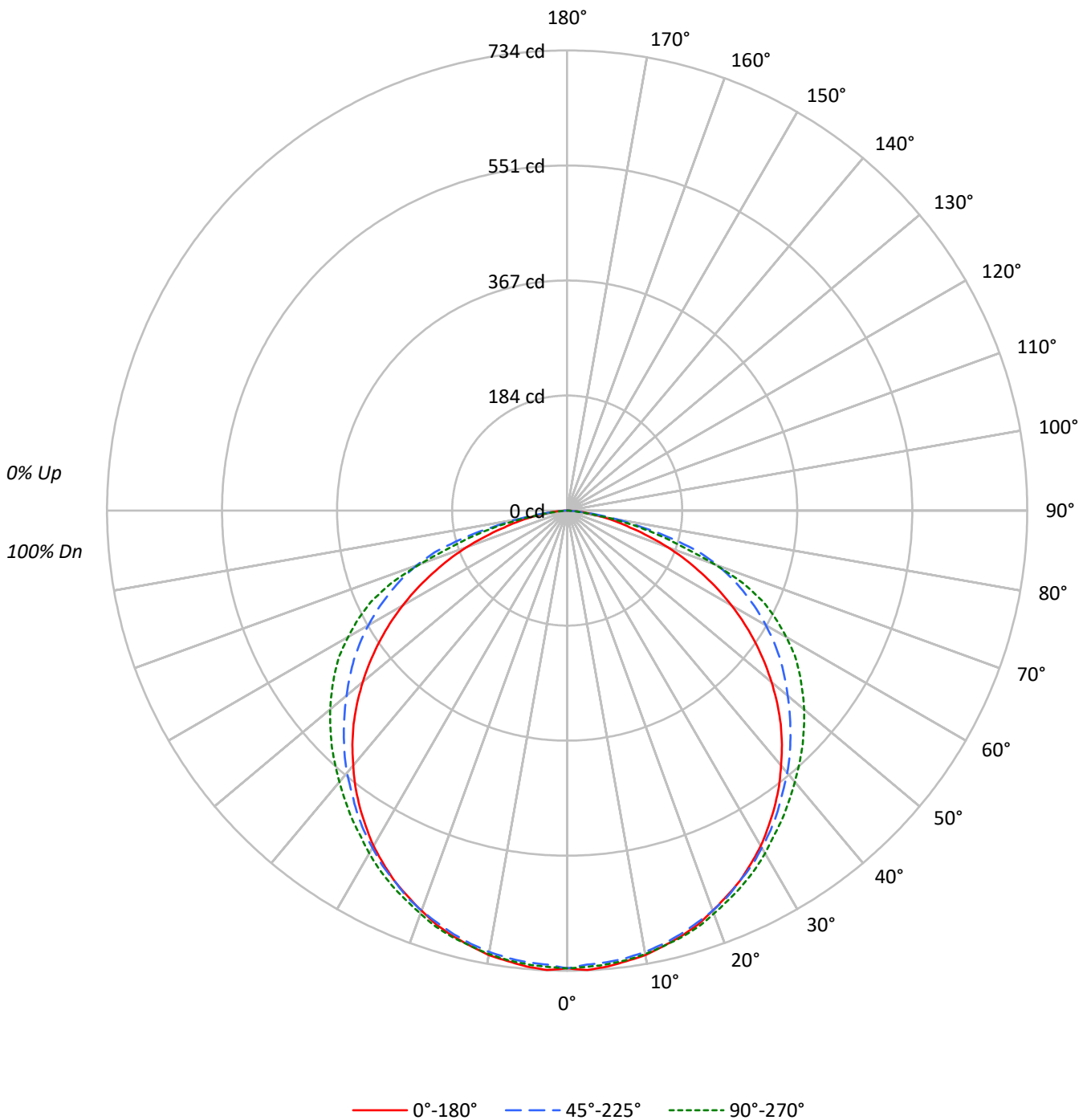
Input Watts (W): 31.341  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1965	1965	1965
5°	1972	1954	1963
10°	1967	1953	1962
15°	1958	1949	1963
20°	1945	1945	1959
25°	1935	1935	1961
30°	1920	1930	1962
35°	1895	1923	1968
40°	1865	1919	1985
45°	1833	1917	2021
50°	1781	1924	2066
55°	1717	1948	2124
60°	1630	1969	2171
65°	1507	1994	2200
70°	1339	2009	1969
75°	1079	1805	1575
80°	845	1266	1029
85°	577	367	262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	3.2
10°-20°	198.3	9.1
20°-30°	301.9	13.8
30°-40°	367.7	16.9
40°-50°	390.1	17.9
50°-60°	368.2	16.9
60°-70°	297.3	13.6
70°-80°	161.3	7.4
80°-90°	26.1	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°	569.3	26.1
0°-40°	937.0	43.0
0°-60°	1695.3	77.8
0°-90°	2180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	730	728	723	728	727	69
15°	703	701	700	705	705	198
25°	652	650	652	659	660	300
35°	577	580	586	597	599	361
45°	482	488	504	522	531	371
55°	366	381	415	442	453	327
65°	237	266	313	339	346	234
75°	104	152	174	157	152	113
85°	19	20	12	10	8	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	730.1	730.1	730.1	730.1	730.1
2.5°	733.5	730.1	725.0	730.1	728.4
5°	730.1	728.4	723.3	728.4	726.7
7.5°	725.0	725.0	719.9	723.3	723.3
10°	719.9	718.2	714.8	719.9	718.2
12.5°	711.4	709.7	708.0	713.1	711.4
15°	702.9	701.2	699.5	704.6	704.6
17.5°	692.7	691.0	689.3	696.1	696.1
20°	679.1	679.1	679.1	685.9	684.2
22.5°	665.5	665.5	667.2	674.0	672.3
25°	651.8	650.1	651.8	658.7	660.4
27.5°	634.8	636.5	638.2	645.0	646.7
30°	617.8	619.5	621.2	629.7	631.4
32.5°	597.4	600.8	604.2	614.4	614.4
35°	577.0	580.4	585.5	597.4	599.1
37.5°	554.8	558.2	565.0	578.7	582.1
40°	531.0	536.1	546.3	559.9	565.0
42.5°	507.2	514.0	525.9	541.2	548.0
45°	481.7	488.5	503.8	522.5	531.0
47.5°	454.4	462.9	481.7	505.5	512.3
50°	425.5	437.4	459.5	485.1	493.6
52.5°	396.6	410.2	437.4	464.6	473.1
55°	365.9	381.2	415.3	442.5	452.7
57.5°	335.3	352.3	391.4	420.4	430.6
60°	302.9	323.4	365.9	394.9	403.4
62.5°	270.6	294.4	340.4	369.3	376.1
65°	236.6	265.5	313.2	338.7	345.5
67.5°	204.2	238.3	285.9	304.6	304.6
70°	170.2	207.6	255.3	260.4	250.2
72.5°	136.2	178.7	221.3	202.5	194.0
75°	103.8	151.5	173.6	156.6	151.5
77.5°	78.3	122.5	122.5	112.3	108.9
80°	54.5	93.6	81.7	71.5	66.4
82.5°	35.7	52.8	42.5	34.0	28.9
85°	18.7	20.4	11.9	10.2	8.5
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)