

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: P259031

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2291.0 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

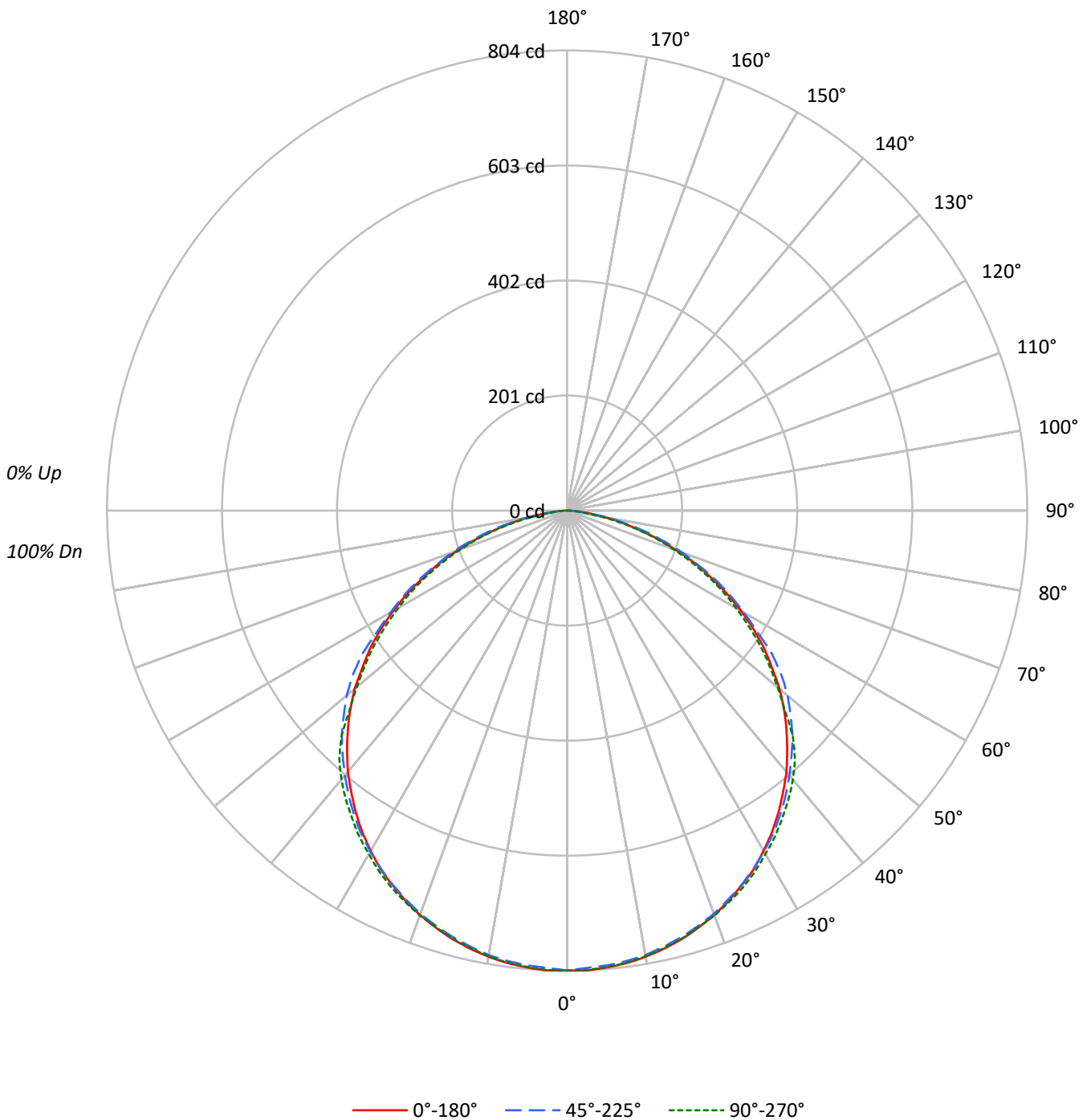
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2162	2162	2162
5°	2164	2154	2162
10°	2163	2155	2161
15°	2159	2149	2157
20°	2153	2147	2155
25°	2144	2142	2157
30°	2132	2137	2153
35°	2115	2132	2154
40°	2093	2122	2156
45°	2063	2120	2123
50°	2029	2104	2007
55°	1972	2049	1934
60°	1889	1917	1833
65°	1769	1816	1721
70°	1610	1674	1557
75°	1343	1467	1319
80°	1065	1122	914
85°	692	599	531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.3
10°-20°	218.5	9.5
20°-30°	333.5	14.6
30°-40°	406.6	17.7
40°-50°	425.7	18.6
50°-60°	378.8	16.5
60°-70°	279.4	12.2
70°-80°	144.4	6.3
80°-90°	28.0	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°	628.0	27.4
0°-40°	1034.6	45.2
0°-60°	1839.1	80.3
0°-90°	2291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	801	800	798	800	800	76
15°	775	774	771	774	774	219
25°	722	722	721	727	727	333
35°	644	644	649	656	656	403
45°	542	546	557	562	558	418
55°	420	429	437	418	412	375
65°	278	297	285	276	270	275
75°	129	143	141	130	127	140
85°	22	25	19	18	17	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	803.5	803.5	803.5	803.5	803.5
2.5°	804.2	803.5	799.7	803.5	803.5
5°	801.2	800.5	797.5	800.5	800.5
7.5°	797.5	796.7	793.8	796.7	796.7
10°	791.5	790.8	788.5	791.5	790.8
12.5°	784.0	784.0	780.3	784.0	782.6
15°	775.1	774.3	771.4	774.3	774.3
17.5°	763.9	763.1	760.9	764.6	763.1
20°	751.9	751.2	749.7	753.4	752.7
22.5°	737.8	737.8	735.5	740.0	740.0
25°	722.1	722.1	721.3	726.6	726.6
27.5°	706.4	704.9	704.9	710.1	710.9
30°	686.2	686.2	687.7	693.7	692.9
32.5°	666.1	666.8	669.8	675.0	675.8
35°	643.7	644.4	648.9	656.4	655.6
37.5°	619.8	622.0	627.2	635.5	635.5
40°	595.9	597.4	604.1	613.1	613.8
42.5°	569.0	572.7	580.2	590.6	589.2
45°	542.1	545.8	557.0	562.3	557.8
47.5°	513.7	518.2	529.4	530.2	515.2
50°	484.6	489.8	502.5	487.6	479.4
52.5°	451.0	460.7	471.9	451.0	445.8
55°	420.4	429.4	436.8	418.2	412.2
57.5°	386.1	398.0	392.8	383.8	376.3
60°	351.0	363.6	356.2	347.2	340.5
62.5°	315.1	329.3	321.8	312.9	306.9
65°	277.8	297.2	285.2	275.5	270.3
67.5°	242.7	261.3	247.2	239.7	234.5
70°	204.6	220.3	212.8	203.1	197.9
72.5°	167.3	179.2	177.0	166.5	162.8
75°	129.2	142.6	141.1	129.9	126.9
77.5°	97.1	109.8	105.3	96.3	92.6
80°	68.7	76.9	72.4	62.0	59.0
82.5°	41.8	48.5	41.1	35.1	32.1
85°	22.4	24.6	19.4	17.9	17.2
87.5°	8.2	8.2	8.2	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)