

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: P258982

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258982  
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-L82765-W2A1-U-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3011.0 lumens  
Efficiency: N/A  
Efficacy: 82.6 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

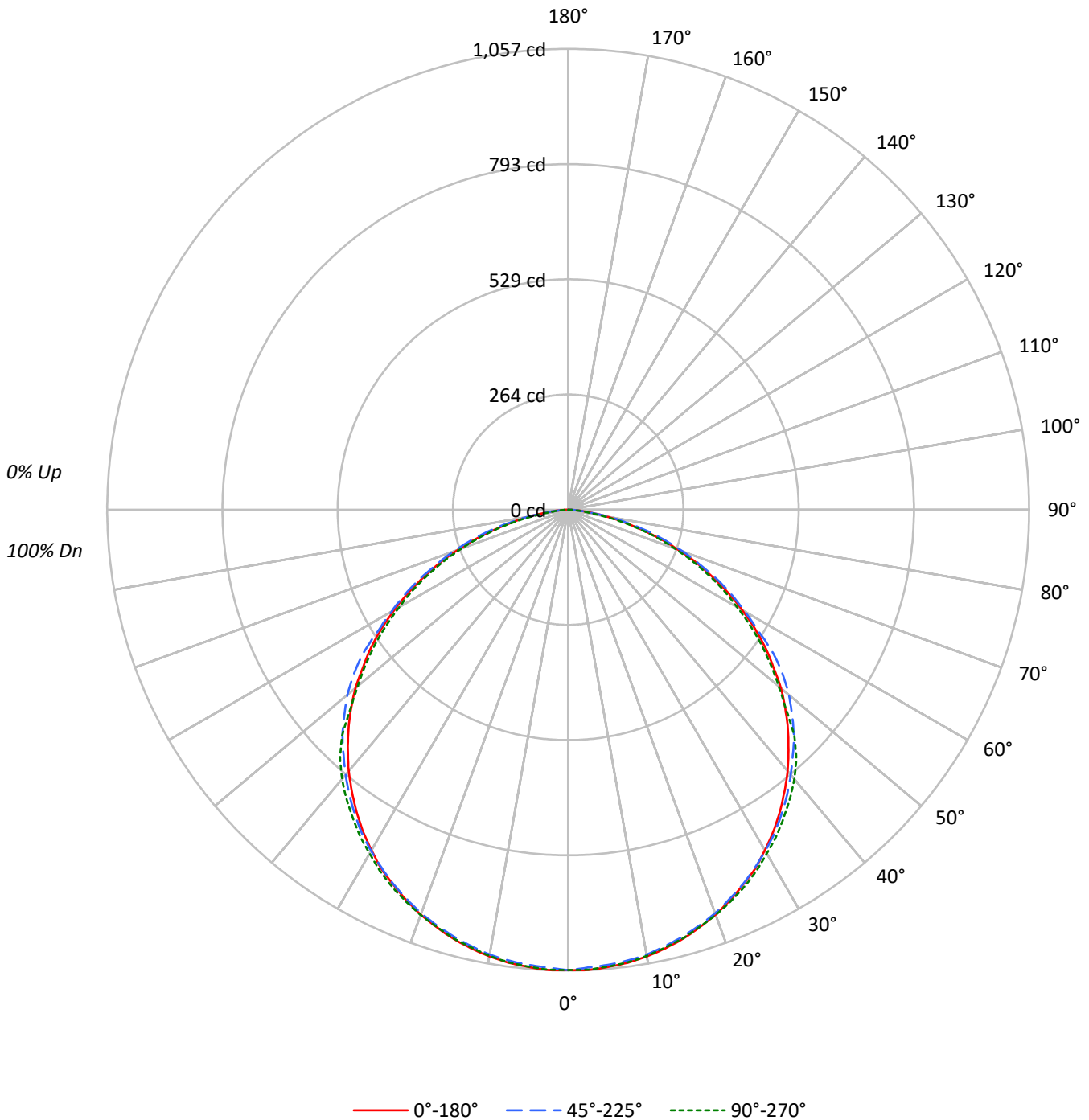
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2842	2842	2842
5°	2844	2831	2842
10°	2843	2832	2840
15°	2838	2824	2835
20°	2830	2822	2833
25°	2818	2815	2835
30°	2802	2809	2830
35°	2779	2802	2831
40°	2751	2789	2834
45°	2712	2786	2790
50°	2666	2765	2637
55°	2592	2693	2541
60°	2483	2519	2408
65°	2325	2387	2262
70°	2116	2201	2046
75°	1765	1929	1734
80°	1399	1475	1201
85°	908	787	698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	3.3
10°-20°	287.1	9.5
20°-30°	438.3	14.6
30°-40°	534.4	17.7
40°-50°	559.5	18.6
50°-60°	497.8	16.5
60°-70°	367.3	12.2
70°-80°	189.8	6.3
80°-90°	36.9	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°	825.4	27.4
0°-40°	1359.8	45.2
0°-60°	2417.1	80.3
0°-90°	3011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1053	1052	1048	1052	1052	100
15°	1019	1018	1014	1018	1018	287
25°	949	949	948	955	955	438
35°	846	847	853	863	862	529
45°	712	717	732	739	733	549
55°	552	564	574	550	542	492
65°	365	391	375	362	355	362
75°	170	187	186	171	167	184
85°	29	32	26	24	23	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1056.0	1056.0	1056.0	1056.0	1056.0
2.5°	1057.0	1056.0	1051.1	1056.0	1056.0
5°	1053.0	1052.0	1048.1	1052.0	1052.0
7.5°	1048.1	1047.1	1043.2	1047.1	1047.1
10°	1040.3	1039.3	1036.3	1040.3	1039.3
12.5°	1030.5	1030.5	1025.5	1030.5	1028.5
15°	1018.7	1017.7	1013.8	1017.7	1017.7
17.5°	1004.0	1003.0	1000.0	1004.9	1003.0
20°	988.3	987.3	985.3	990.2	989.2
22.5°	969.6	969.6	966.7	972.6	972.6
25°	949.0	949.0	948.0	954.9	954.9
27.5°	928.4	926.4	926.4	933.3	934.3
30°	901.9	901.9	903.9	911.7	910.7
32.5°	875.4	876.4	880.3	887.2	888.2
35°	846.0	846.9	852.8	862.6	861.7
37.5°	814.5	817.5	824.4	835.2	835.2
40°	783.1	785.1	793.9	805.7	806.7
42.5°	747.8	752.7	762.5	776.3	774.3
45°	712.5	717.4	732.1	739.0	733.1
47.5°	675.2	681.1	695.8	696.8	677.2
50°	636.9	643.8	660.5	640.8	630.0
52.5°	592.8	605.5	620.2	592.8	585.9
55°	552.5	564.3	574.1	549.6	541.7
57.5°	507.4	523.1	516.2	504.4	494.6
60°	461.3	477.9	468.1	456.3	447.5
62.5°	414.1	432.8	423.0	411.2	403.3
65°	365.1	390.6	374.9	362.1	355.3
67.5°	318.9	343.5	324.8	315.0	308.2
70°	268.9	289.5	279.7	266.9	260.1
72.5°	219.8	235.5	232.6	218.8	213.9
75°	169.8	187.4	185.5	170.8	166.8
77.5°	127.6	144.3	138.4	126.6	121.7
80°	90.3	101.1	95.2	81.5	77.5
82.5°	55.0	63.8	54.0	46.1	42.2
85°	29.4	32.4	25.5	23.6	22.6
87.5°	10.8	10.8	10.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)