

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: P230905

Luminaire Tested: **14CZ-LD5-44-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P230905  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-44-UNV-L935-CD1-U  
Description: CRUZE 1x4 LED TROFFER  
WITH RIBBED LENS  
Light Source: (84) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3786.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

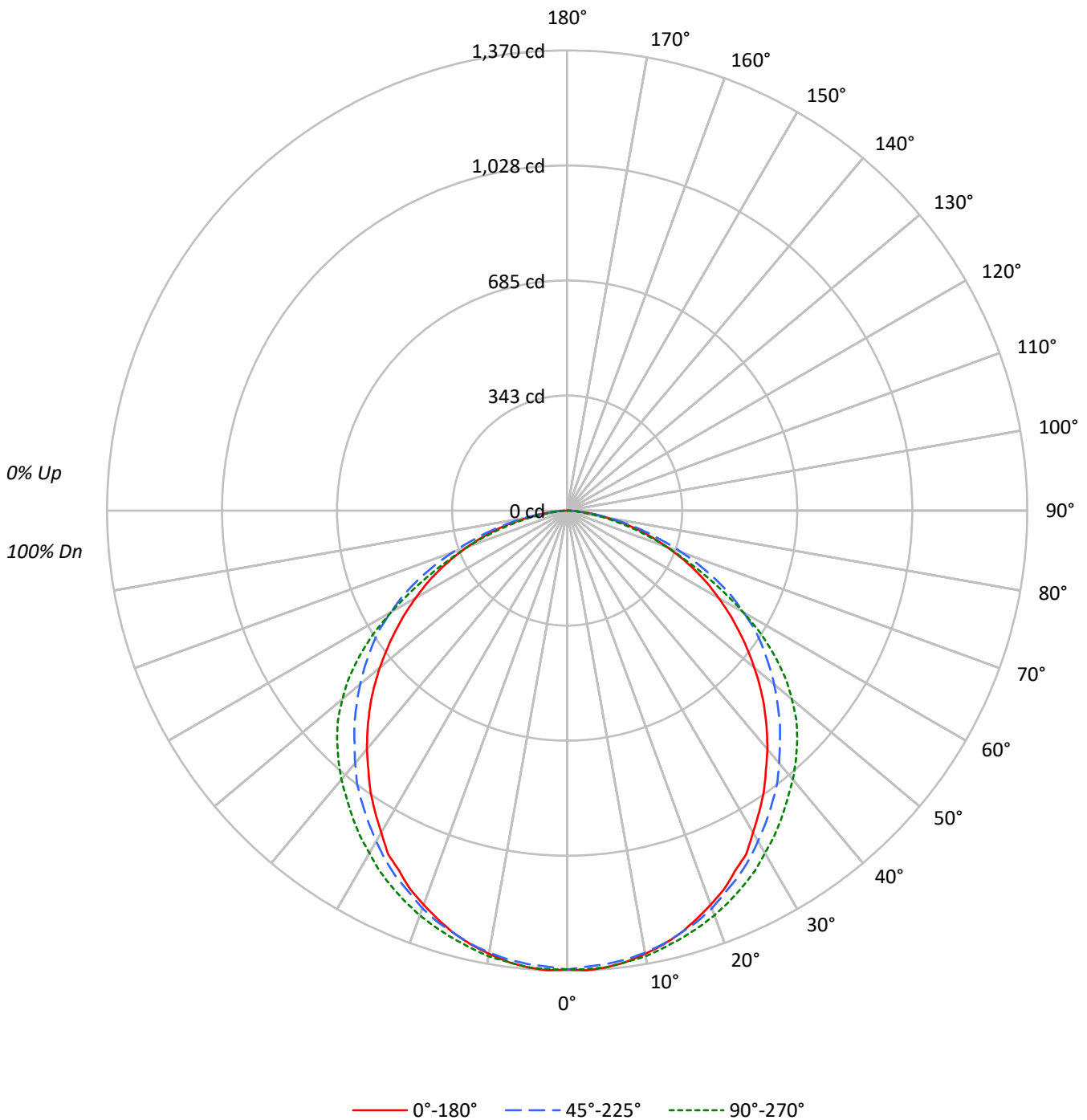
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	3677	3677	3677
5°	3686	3660	3686
10°	3662	3652	3682
15°	3629	3629	3671
20°	3576	3608	3672
25°	3513	3575	3669
30°	3439	3532	3659
35°	3354	3495	3661
40°	3258	3449	3672
45°	3161	3409	3687
50°	3047	3368	3657
55°	2925	3336	3538
60°	2802	3265	3254
65°	2674	3126	2853
70°	2482	2849	2467
75°	2251	2484	2038
80°	1793	1967	1505
85°	1269	1096	865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	3.4
10°-20°	369.3	9.8
20°-30°	556.8	14.7
30°-40°	667.4	17.6
40°-50°	692.6	18.3
50°-60°	624.7	16.5
60°-70°	455.7	12.0
70°-80°	239.1	6.3
80°-90°	51.0	1.3
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°	1055.4	27.9
0°-40°	1722.8	45.5
0°-60°	3040.2	80.3
0°-90°	3786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1364	1361	1355	1364	1364	129
15°	1303	1303	1303	1318	1318	367
25°	1183	1189	1204	1230	1236	546
35°	1021	1032	1064	1103	1114	638
45°	831	847	896	950	969	640
55°	623	646	711	758	754	558
65°	420	444	491	472	448	415
75°	216	246	239	207	196	227
85°	41	50	36	30	28	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1366.3	1366.3	1366.3	1366.3	1366.3
2.5°	1370.0	1366.3	1358.8	1366.3	1366.3
5°	1364.4	1360.7	1355.1	1364.4	1364.4
7.5°	1355.1	1351.3	1347.6	1356.9	1355.1
10°	1340.1	1338.3	1336.4	1347.6	1347.6
12.5°	1323.3	1323.3	1321.5	1334.5	1332.7
15°	1302.8	1302.8	1302.8	1317.7	1317.7
17.5°	1276.7	1280.4	1284.1	1300.9	1300.9
20°	1248.7	1252.4	1259.9	1280.4	1282.3
22.5°	1220.7	1222.5	1230.0	1254.3	1259.9
25°	1183.3	1188.9	1203.9	1230.0	1235.6
27.5°	1153.5	1155.3	1172.1	1202.0	1209.5
30°	1106.8	1119.9	1136.7	1170.3	1177.7
32.5°	1063.9	1075.1	1101.2	1136.7	1147.9
35°	1021.0	1032.2	1063.9	1103.1	1114.3
37.5°	972.4	989.2	1026.6	1065.8	1078.8
40°	927.6	942.6	981.8	1030.3	1045.2
42.5°	879.1	894.0	937.0	991.1	1007.9
45°	830.6	847.4	895.9	950.0	968.7
47.5°	780.2	798.9	849.2	909.0	925.8
50°	727.9	748.5	804.5	866.0	873.5
52.5°	675.7	698.1	757.8	811.9	819.4
55°	623.4	645.8	711.1	757.8	754.1
57.5°	573.0	597.3	664.5	688.7	685.0
60°	520.7	546.9	606.6	617.8	604.7
62.5°	472.2	496.5	552.5	543.1	526.3
65°	420.0	444.2	490.9	472.2	448.0
67.5°	367.7	397.6	427.4	395.7	377.0
70°	315.4	349.0	362.1	330.4	313.6
72.5°	265.0	300.5	296.8	265.0	253.8
75°	216.5	246.4	238.9	207.2	196.0
77.5°	164.2	197.8	181.0	154.9	145.6
80°	115.7	145.6	126.9	104.5	97.1
82.5°	76.5	97.1	78.4	61.6	56.0
85°	41.1	50.4	35.5	29.9	28.0
87.5°	16.8	14.9	13.1	13.1	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)