

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: P275427

Luminaire Tested: **14CZ2-25-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-UNV-L93050-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2265.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

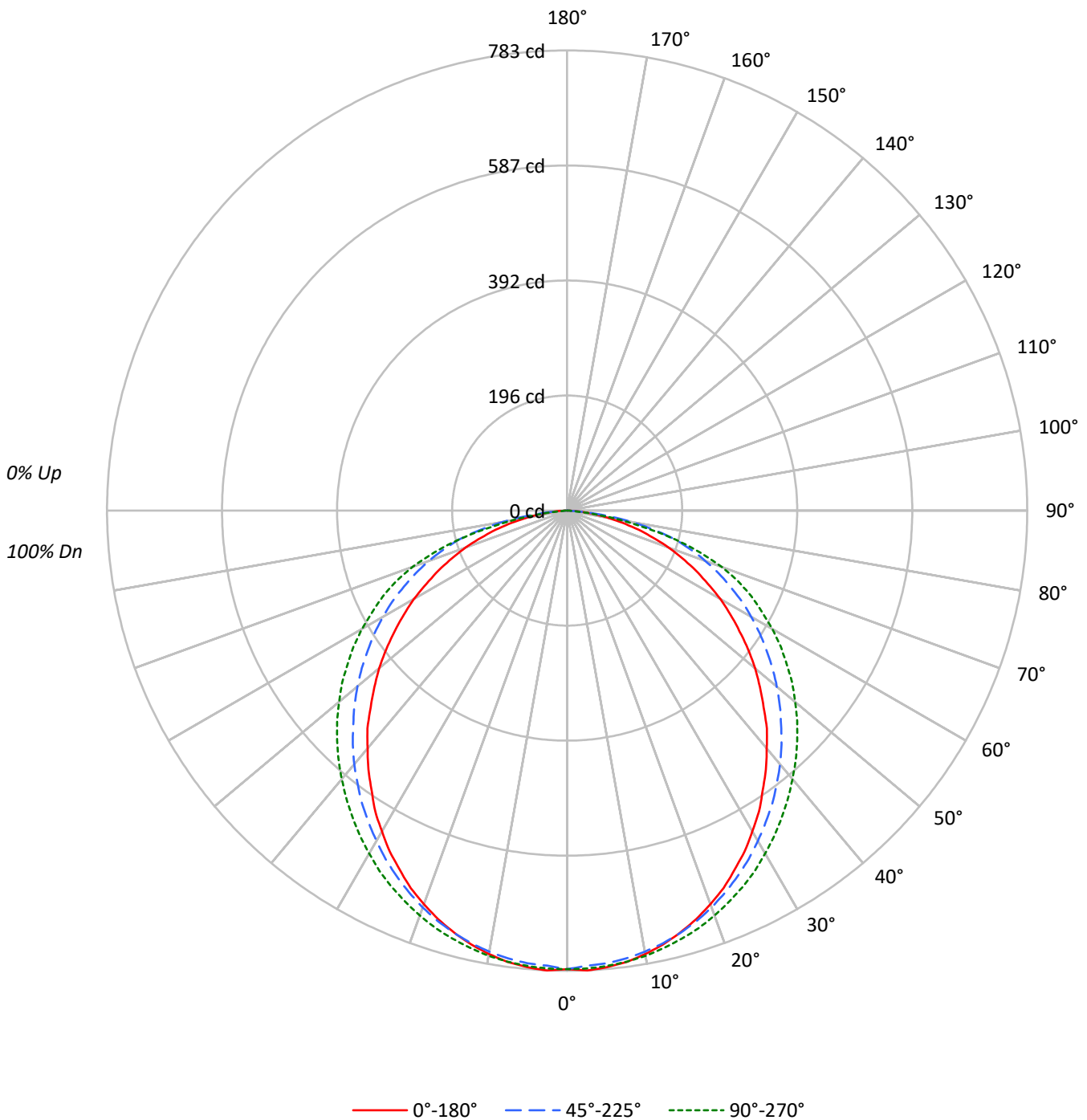
Input Watts (W): 18.972  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2100	2100	2100
5°	2106	2089	2101
10°	2094	2082	2102
15°	2071	2072	2101
20°	2041	2058	2100
25°	2002	2038	2098
30°	1959	2017	2093
35°	1906	1999	2092
40°	1856	1980	2095
45°	1799	1958	2106
50°	1747	1950	2121
55°	1680	1943	2140
60°	1620	1946	2169
65°	1537	1952	2203
70°	1442	1967	2201
75°	1308	1985	1990
80°	1072	1714	1416
85°	797	812	327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	3.3
10°-20°	210.9	9.3
20°-30°	317.7	14.0
30°-40°	381.3	16.8
40°-50°	397.4	17.5
50°-60°	367.9	16.2
60°-70°	297.3	13.1
70°-80°	181.2	8.0
80°-90°	37.4	1.7
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°	602.5	26.6
0°-40°	983.8	43.4
0°-60°	1749.1	77.2
0°-90°	2265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	780	778	773	779	778	74
15°	743	744	744	754	754	210
25°	674	678	686	704	707	311
35°	580	589	609	631	637	364
45°	473	487	515	543	554	365
55°	358	377	414	446	456	321
65°	241	265	307	337	346	239
75°	126	154	191	194	191	132
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	780.3	780.3	780.3	780.3	780.3
2.5°	783.3	780.8	775.2	780.8	779.8
5°	779.8	777.8	773.2	778.8	777.8
7.5°	774.7	772.7	768.7	775.2	774.2
10°	766.2	765.1	762.1	769.7	769.2
12.5°	756.1	755.6	754.0	762.6	762.1
15°	743.4	743.9	743.9	754.0	754.0
17.5°	729.3	730.3	732.3	743.4	744.9
20°	712.6	714.6	718.7	731.3	733.3
22.5°	695.5	697.0	703.0	718.2	720.2
25°	674.2	678.3	686.4	703.5	706.6
27.5°	654.0	657.6	668.7	686.4	691.4
30°	630.3	635.9	649.0	668.2	673.7
32.5°	607.6	613.6	628.8	651.0	656.1
35°	580.3	589.4	608.6	630.8	636.9
37.5°	555.6	564.1	585.9	610.1	617.2
40°	528.3	538.9	563.6	589.4	596.5
42.5°	503.0	513.1	539.9	566.2	575.8
45°	472.7	486.9	514.6	543.4	553.5
47.5°	444.9	459.1	490.9	521.7	530.8
50°	417.2	432.3	465.7	497.5	506.6
52.5°	388.4	404.5	440.4	472.2	482.8
55°	358.1	376.8	414.1	446.5	456.1
57.5°	329.3	348.5	388.4	421.2	430.8
60°	301.0	320.7	361.6	392.9	403.0
62.5°	269.7	292.9	335.4	366.2	373.7
65°	241.4	265.2	306.6	337.4	346.0
67.5°	211.6	237.4	278.8	307.1	315.2
70°	183.3	210.1	250.0	276.3	279.8
72.5°	153.0	180.3	220.7	237.4	237.4
75°	125.8	153.5	190.9	193.9	191.4
77.5°	96.0	126.8	151.0	144.9	138.9
80°	69.2	99.5	110.6	99.5	91.4
82.5°	46.5	72.2	66.7	53.0	47.0
85°	25.8	38.4	26.3	14.6	10.6
87.5°	9.6	8.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)