

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: P275558

Luminaire Tested: **14CZ2-20-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-S-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2205.0 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

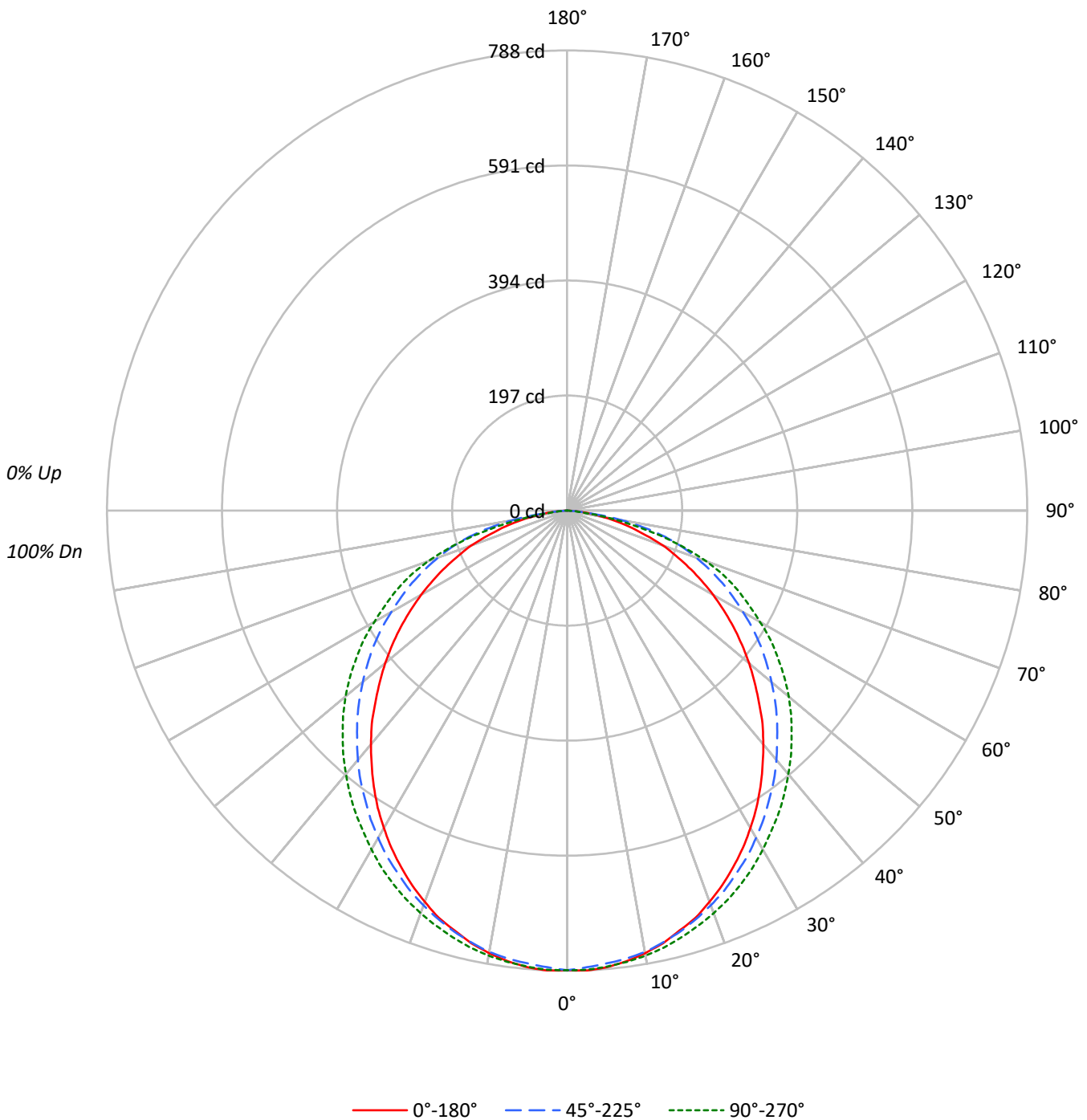
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2118	2118	2118
5°	2120	2103	2118
10°	2103	2097	2115
15°	2074	2080	2108
20°	2041	2060	2101
25°	1999	2035	2094
30°	1950	2011	2082
35°	1896	1983	2076
40°	1836	1959	2070
45°	1768	1935	2068
50°	1703	1913	2073
55°	1631	1898	2067
60°	1553	1871	2053
65°	1462	1866	2053
70°	1376	1850	1995
75°	1194	1807	1705
80°	965	1457	1134
85°	642	506	337



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.3	3.4
10°-20°	211.5	9.6
20°-30°	317.3	14.4
30°-40°	378.5	17.2
40°-50°	391.3	17.7
50°-60°	357.2	16.2
60°-70°	281.1	12.7
70°-80°	163.6	7.4
80°-90°	30.2	1.4
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°	603.1	27.4
0°-40°	981.6	44.5
0°-60°	1730.1	78.5
0°-90°	2205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	785	783	778	785	784	74
15°	744	746	747	756	756	210
25°	673	677	686	702	705	310
35°	577	585	604	626	632	361
45°	465	480	508	537	543	359
55°	348	366	404	434	441	311
65°	230	254	293	316	322	228
75°	115	142	174	170	164	122
85°	21	30	16	13	11	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	787.1	787.1	787.1	787.1	787.1
2.5°	788.2	786.1	782.8	788.2	787.1
5°	785.0	782.8	778.4	785.0	783.9
7.5°	778.4	776.2	774.0	780.6	779.5
10°	769.7	768.6	767.5	775.1	774.0
12.5°	758.7	758.7	757.6	766.4	766.4
15°	744.5	745.6	746.7	756.5	756.5
17.5°	731.4	730.3	733.6	744.5	745.6
20°	712.8	715.0	719.4	732.5	733.6
22.5°	694.2	696.4	704.1	717.2	720.5
25°	673.4	676.7	685.5	701.9	705.2
27.5°	651.6	656.0	668.0	685.5	688.8
30°	627.5	634.1	647.2	666.9	670.2
32.5°	603.5	610.0	626.4	646.1	650.5
35°	577.2	584.9	603.5	626.4	631.9
37.5°	549.9	559.7	581.6	604.6	611.1
40°	522.6	533.5	557.6	581.6	589.3
42.5°	495.2	506.2	532.4	559.7	567.4
45°	464.6	479.9	508.4	536.8	543.4
47.5°	435.1	451.5	483.2	511.6	520.4
50°	406.7	423.1	457.0	486.5	495.2
52.5°	377.2	394.7	430.7	461.4	469.0
55°	347.7	366.2	404.5	434.0	440.6
57.5°	318.1	337.8	377.2	405.6	413.3
60°	288.6	309.4	347.7	376.1	381.5
62.5°	259.1	281.0	320.3	345.5	350.9
65°	229.6	253.6	293.0	316.0	322.5
67.5°	201.2	225.2	263.5	285.3	290.8
70°	174.9	196.8	235.1	251.5	253.6
72.5°	142.1	169.5	206.6	215.4	209.9
75°	114.8	142.1	173.8	170.5	164.0
77.5°	87.5	114.8	135.6	124.6	115.9
80°	62.3	89.6	94.0	77.6	73.2
82.5°	40.5	62.3	52.5	40.5	32.8
85°	20.8	29.5	16.4	13.1	10.9
87.5°	6.6	4.4	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)