

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: P275677

Luminaire Tested: **14CZ2-20-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275677  
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-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1980.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

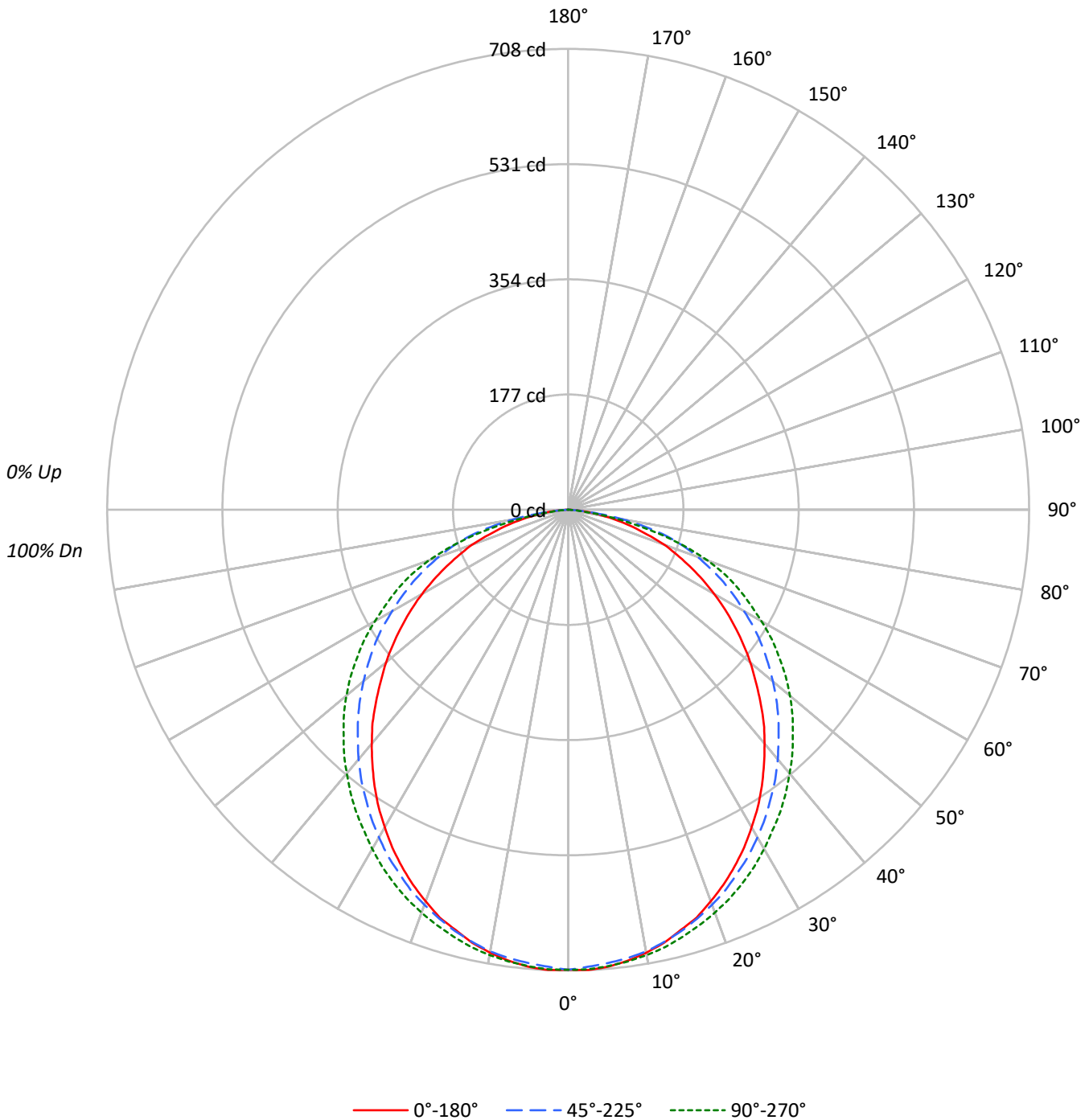
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1902	1902	1902
5°	1904	1888	1901
10°	1888	1883	1899
15°	1862	1868	1892
20°	1833	1850	1886
25°	1795	1828	1880
30°	1751	1806	1870
35°	1703	1780	1864
40°	1649	1759	1859
45°	1588	1737	1857
50°	1529	1718	1862
55°	1465	1704	1856
60°	1395	1680	1844
65°	1313	1675	1844
70°	1236	1661	1792
75°	1072	1623	1531
80°	868	1308	1020
85°	577	454	303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	3.4
10°-20°	189.9	9.6
20°-30°	284.9	14.4
30°-40°	339.9	17.2
40°-50°	351.3	17.7
50°-60°	320.8	16.2
60°-70°	252.4	12.7
70°-80°	146.9	7.4
80°-90°	27.1	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°	541.6	27.4
0°-40°	881.4	44.5
0°-60°	1553.5	78.5
0°-90°	1980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	705	703	699	705	704	67
15°	668	670	670	679	679	189
25°	605	608	616	630	633	278
35°	518	525	542	562	567	324
45°	417	431	456	482	488	322
55°	312	329	363	390	396	279
65°	206	228	263	284	290	205
75°	103	128	156	153	147	110
85°	19	26	15	12	10	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	706.8	706.8	706.8	706.8	706.8
2.5°	707.8	705.8	702.9	707.8	706.8
5°	704.9	702.9	699.0	704.9	703.9
7.5°	699.0	697.0	695.0	700.9	700.0
10°	691.1	690.1	689.2	696.0	695.0
12.5°	681.3	681.3	680.3	688.2	688.2
15°	668.5	669.5	670.5	679.3	679.3
17.5°	656.8	655.8	658.7	668.5	669.5
20°	640.1	642.0	646.0	657.7	658.7
22.5°	623.4	625.3	632.2	644.0	646.9
25°	604.7	607.7	615.5	630.3	633.2
27.5°	585.1	589.0	599.8	615.5	618.5
30°	563.5	569.4	581.2	598.8	601.8
32.5°	541.9	547.8	562.5	580.2	584.1
35°	518.3	525.2	541.9	562.5	567.4
37.5°	493.8	502.6	522.3	542.9	548.8
40°	469.3	479.1	500.7	522.3	529.1
42.5°	444.7	454.5	478.1	502.6	509.5
45°	417.2	431.0	456.5	482.0	487.9
47.5°	390.7	405.4	433.9	459.4	467.3
50°	365.2	379.9	410.4	436.9	444.7
52.5°	338.7	354.4	386.8	414.3	421.2
55°	312.2	328.9	363.2	389.7	395.6
57.5°	285.7	303.3	338.7	364.2	371.1
60°	259.2	277.8	312.2	337.7	342.6
62.5°	232.7	252.3	287.6	310.2	315.1
65°	206.2	227.8	263.1	283.7	289.6
67.5°	180.6	202.2	236.6	256.2	261.1
70°	157.1	176.7	211.1	225.8	227.8
72.5°	127.6	152.2	185.5	193.4	188.5
75°	103.1	127.6	156.1	153.1	147.3
77.5°	78.5	103.1	121.7	111.9	104.1
80°	56.0	80.5	84.4	69.7	65.8
82.5°	36.3	56.0	47.1	36.3	29.5
85°	18.7	26.5	14.7	11.8	9.8
87.5°	5.9	3.9	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)