

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: P275601

Luminaire Tested: **14CZ2-35-S-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275601  
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: 14CZ2-35-S-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2740.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

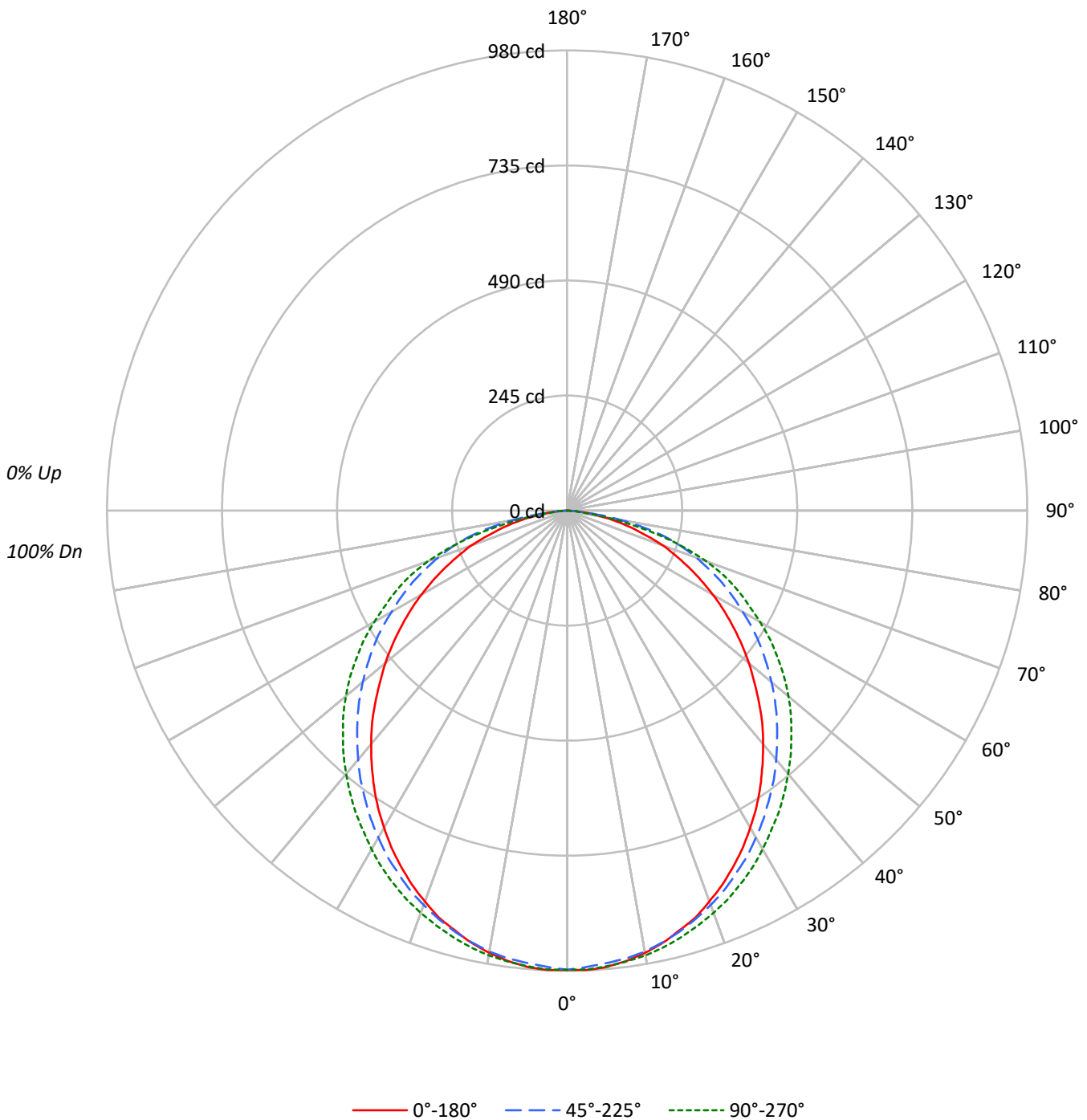
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2632	2632	2632
5°	2635	2613	2631
10°	2613	2606	2628
15°	2578	2585	2619
20°	2537	2560	2611
25°	2485	2529	2602
30°	2423	2499	2588
35°	2356	2463	2579
40°	2281	2434	2572
45°	2197	2404	2570
50°	2116	2377	2576
55°	2027	2358	2569
60°	1930	2325	2552
65°	1817	2318	2552
70°	1710	2298	2480
75°	1483	2246	2119
80°	1199	1810	1410
85°	797	630	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	3.4
10°-20°	262.8	9.6
20°-30°	394.3	14.4
30°-40°	470.3	17.2
40°-50°	486.2	17.7
50°-60°	443.9	16.2
60°-70°	349.3	12.7
70°-80°	203.3	7.4
80°-90°	37.5	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°	749.5	27.4
0°-40°	1219.8	44.5
0°-60°	2149.9	78.5
0°-90°	2740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	975	973	967	975	974	92
15°	925	926	928	940	940	261
25°	837	841	852	872	876	385
35°	717	727	750	778	785	448
45°	577	596	632	667	675	446
55°	432	455	503	539	548	386
65°	285	315	364	393	401	283
75°	143	177	216	212	204	152
85°	26	37	20	16	14	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	978.1	978.1	978.1	978.1	978.1
2.5°	979.5	976.8	972.7	979.5	978.1
5°	975.4	972.7	967.3	975.4	974.1
7.5°	967.3	964.5	961.8	970.0	968.6
10°	956.4	955.0	953.7	963.2	961.8
12.5°	942.8	942.8	941.5	952.3	952.3
15°	925.2	926.5	927.9	940.1	940.1
17.5°	908.9	907.5	911.6	925.2	926.5
20°	885.8	888.5	893.9	910.2	911.6
22.5°	862.7	865.4	874.9	891.2	895.3
25°	836.8	840.9	851.8	872.2	876.2
27.5°	809.7	815.1	830.1	851.8	855.9
30°	779.8	787.9	804.2	828.7	832.8
32.5°	749.9	758.1	778.4	802.9	808.3
35°	717.3	726.8	749.9	778.4	785.2
37.5°	683.3	695.6	722.7	751.3	759.4
40°	649.4	663.0	692.8	722.7	732.2
42.5°	615.4	629.0	661.6	695.6	705.1
45°	577.4	596.4	631.7	667.0	675.2
47.5°	540.7	561.1	600.5	635.8	646.7
50°	505.4	525.7	567.9	604.5	615.4
52.5°	468.7	490.4	535.3	573.3	582.8
55°	432.0	455.1	502.7	539.3	547.5
57.5°	395.3	419.8	468.7	504.0	513.5
60°	358.6	384.5	432.0	467.3	474.1
62.5°	322.0	349.1	398.0	429.3	436.1
65°	285.3	315.2	364.1	392.6	400.8
67.5°	250.0	279.9	327.4	354.6	361.4
70°	217.4	244.5	292.1	312.5	315.2
72.5°	176.6	210.6	256.8	267.6	260.8
75°	142.6	176.6	216.0	211.9	203.8
77.5°	108.7	142.6	168.5	154.9	144.0
80°	77.4	111.4	116.8	96.5	91.0
82.5°	50.3	77.4	65.2	50.3	40.8
85°	25.8	36.7	20.4	16.3	13.6
87.5°	8.2	5.4	2.7	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)