

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: P275699

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275699  
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-L92765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3014.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

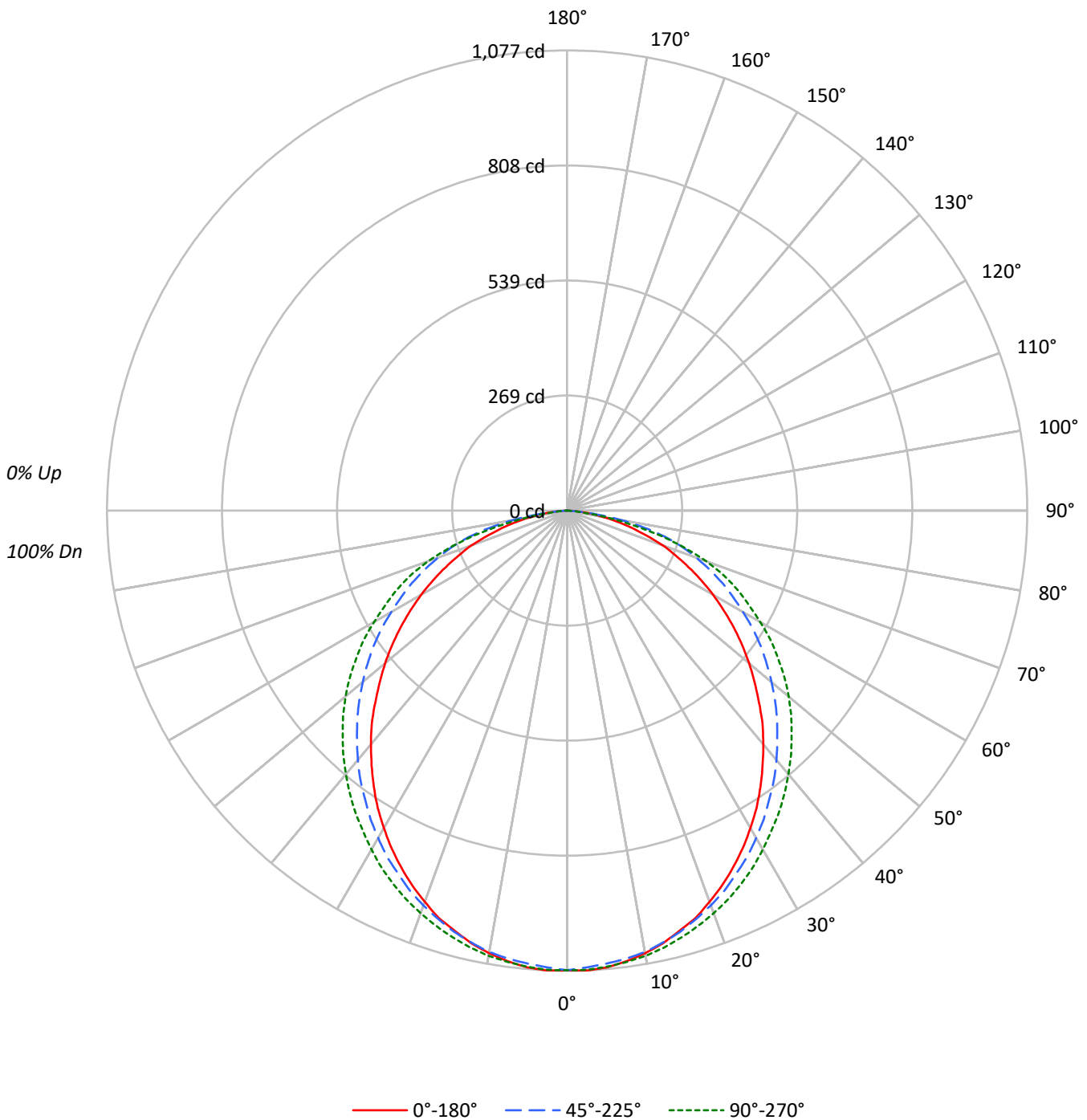
Input Watts (W): 27.528  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2895	2895	2895
5°	2898	2874	2894
10°	2875	2866	2891
15°	2835	2844	2881
20°	2790	2816	2871
25°	2733	2782	2862
30°	2665	2749	2847
35°	2592	2710	2837
40°	2509	2677	2830
45°	2417	2645	2826
50°	2327	2615	2834
55°	2229	2594	2825
60°	2123	2558	2807
65°	1998	2550	2807
70°	1881	2528	2728
75°	1631	2470	2331
80°	1320	1991	1551
85°	877	692	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	3.4
10°-20°	289.1	9.6
20°-30°	433.7	14.4
30°-40°	517.3	17.2
40°-50°	534.8	17.7
50°-60°	488.3	16.2
60°-70°	384.3	12.7
70°-80°	223.7	7.4
80°-90°	41.2	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°	824.4	27.4
0°-40°	1341.7	44.5
0°-60°	2364.9	78.5
0°-90°	3014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1073	1070	1064	1073	1072	102
15°	1018	1019	1021	1034	1034	287
25°	920	925	937	959	964	424
35°	789	800	825	856	864	493
45°	635	656	695	734	743	490
55°	475	501	553	593	602	425
65°	314	347	400	432	441	312
75°	157	194	238	233	224	167
85°	28	40	22	18	15	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1077.4	1074.5	1070.0	1077.4	1075.9
5°	1073.0	1070.0	1064.0	1073.0	1071.5
7.5°	1064.0	1061.0	1058.0	1067.0	1065.5
10°	1052.0	1050.5	1049.0	1059.5	1058.0
12.5°	1037.1	1037.1	1035.6	1047.6	1047.6
15°	1017.7	1019.2	1020.7	1034.1	1034.1
17.5°	999.7	998.2	1002.7	1017.7	1019.2
20°	974.3	977.3	983.3	1001.2	1002.7
22.5°	948.9	951.9	962.4	980.3	984.8
25°	920.5	925.0	937.0	959.4	963.9
27.5°	890.6	896.6	913.1	937.0	941.5
30°	857.8	866.7	884.7	911.6	916.1
32.5°	824.9	833.9	856.3	883.2	889.2
35°	789.0	799.5	824.9	856.3	863.7
37.5°	751.7	765.1	795.0	826.4	835.4
40°	714.3	729.3	762.1	795.0	805.5
42.5°	677.0	691.9	727.8	765.1	775.6
45°	635.1	656.0	694.9	733.7	742.7
47.5°	594.8	617.2	660.5	699.4	711.3
50°	555.9	578.3	624.6	665.0	677.0
52.5°	515.6	539.5	588.8	630.6	641.1
55°	475.2	500.6	552.9	593.3	602.2
57.5°	434.9	461.8	515.6	554.4	564.9
60°	394.5	422.9	475.2	514.1	521.5
62.5°	354.2	384.1	437.9	472.2	479.7
65°	313.8	346.7	400.5	431.9	440.8
67.5°	275.0	307.8	360.1	390.0	397.5
70°	239.1	269.0	321.3	343.7	346.7
72.5°	194.3	231.6	282.4	294.4	286.9
75°	156.9	194.3	237.6	233.1	224.2
77.5°	119.5	156.9	185.3	170.4	158.4
80°	85.2	122.5	128.5	106.1	100.1
82.5°	55.3	85.2	71.7	55.3	44.8
85°	28.4	40.3	22.4	17.9	14.9
87.5°	9.0	6.0	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)