

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: P258926

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2443.0 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

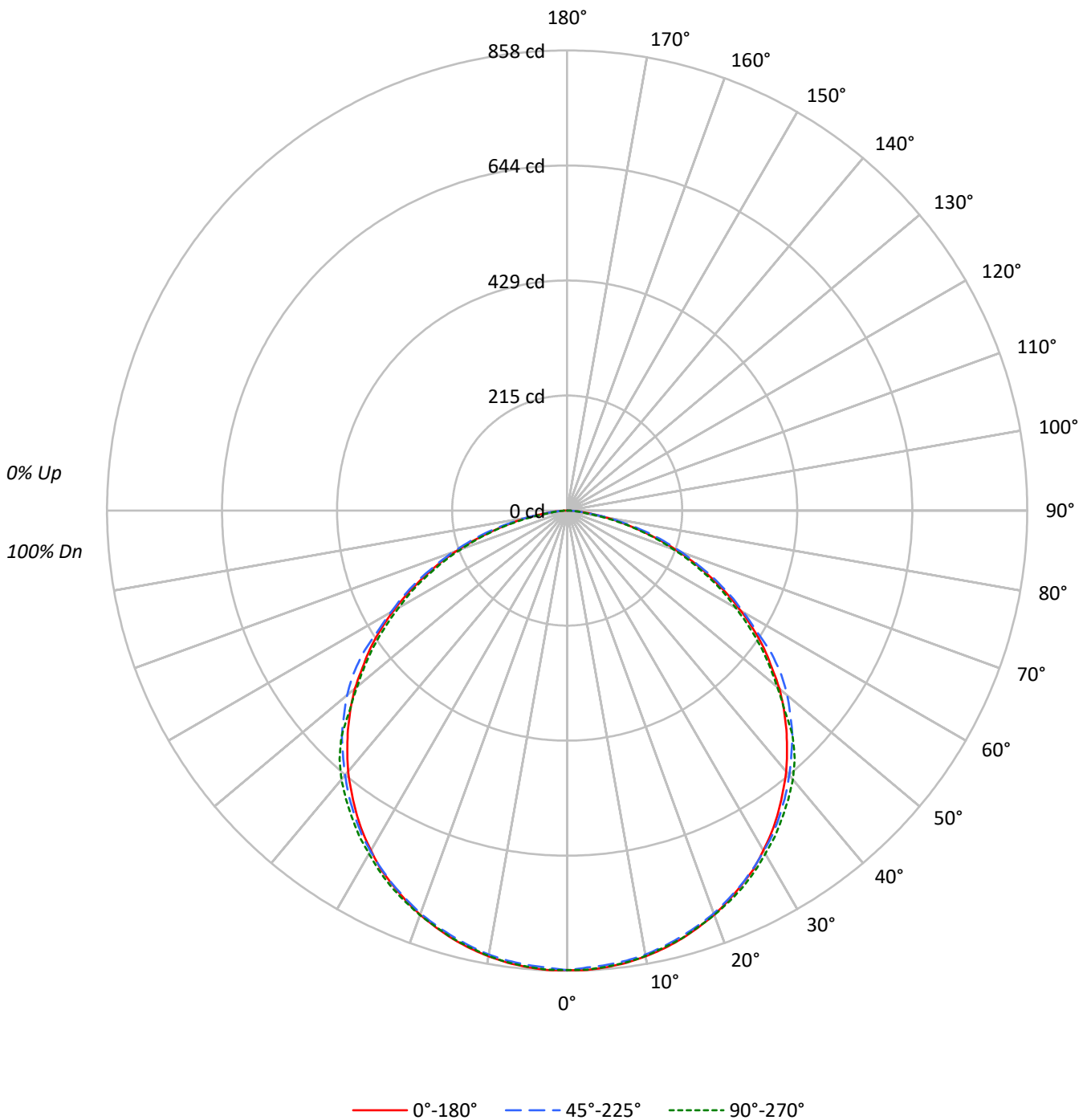
Input Watts (W): 32.271  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2306	2306	2306
5°	2308	2297	2306
10°	2306	2297	2304
15°	2303	2291	2300
20°	2296	2289	2298
25°	2286	2284	2301
30°	2274	2279	2296
35°	2255	2273	2297
40°	2232	2263	2299
45°	2200	2261	2264
50°	2164	2244	2140
55°	2103	2185	2062
60°	2014	2044	1954
65°	1886	1937	1835
70°	1717	1785	1660
75°	1433	1565	1408
80°	1136	1196	975
85°	738	639	565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	3.3
10°-20°	233.0	9.5
20°-30°	355.6	14.6
30°-40°	433.6	17.7
40°-50°	454.0	18.6
50°-60°	403.9	16.5
60°-70°	298.0	12.2
70°-80°	154.0	6.3
80°-90°	29.9	1.2
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°	669.7	27.4
0°-40°	1103.3	45.2
0°-60°	1961.1	80.3
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	854	854	850	854	854	81
15°	826	826	822	826	826	233
25°	770	770	769	775	775	355
35°	686	687	692	700	699	429
45°	578	582	594	600	595	446
55°	448	458	466	446	440	399
65°	296	317	304	294	288	294
75°	138	152	150	138	135	149
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	856.8	856.8	856.8	856.8	856.8
2.5°	857.6	856.8	852.8	856.8	856.8
5°	854.4	853.6	850.4	853.6	853.6
7.5°	850.4	849.6	846.4	849.6	849.6
10°	844.0	843.2	840.8	844.0	843.2
12.5°	836.1	836.1	832.1	836.1	834.5
15°	826.5	825.7	822.5	825.7	825.7
17.5°	814.6	813.8	811.4	815.4	813.8
20°	801.8	801.0	799.4	803.4	802.6
22.5°	786.7	786.7	784.3	789.1	789.1
25°	770.0	770.0	769.2	774.8	774.8
27.5°	753.3	751.7	751.7	757.2	758.0
30°	731.8	731.8	733.4	739.7	738.9
32.5°	710.3	711.1	714.2	719.8	720.6
35°	686.4	687.2	691.9	699.9	699.1
37.5°	660.9	663.3	668.9	677.6	677.6
40°	635.4	637.0	644.2	653.7	654.5
42.5°	606.7	610.7	618.7	629.8	628.2
45°	578.1	582.1	594.0	599.6	594.8
47.5°	547.8	552.6	564.5	565.3	549.4
50°	516.8	522.3	535.9	520.0	511.2
52.5°	480.9	491.3	503.2	480.9	475.4
55°	448.3	457.8	465.8	445.9	439.5
57.5°	411.7	424.4	418.8	409.3	401.3
60°	374.2	387.8	379.8	370.3	363.1
62.5°	336.0	351.1	343.2	333.6	327.3
65°	296.2	316.9	304.2	293.8	288.2
67.5°	258.8	278.7	263.6	255.6	250.0
70°	218.2	234.9	226.9	216.6	211.0
72.5°	178.4	191.1	188.7	177.6	173.6
75°	137.8	152.1	150.5	138.5	135.4
77.5°	103.5	117.0	112.3	102.7	98.7
80°	73.3	82.0	77.2	66.1	62.9
82.5°	44.6	51.8	43.8	37.4	34.2
85°	23.9	26.3	20.7	19.1	18.3
87.5°	8.8	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)