

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: P258890

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258890  
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-LD5-35-RDP-UNV-L83050-W2A1-U-4500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2513.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

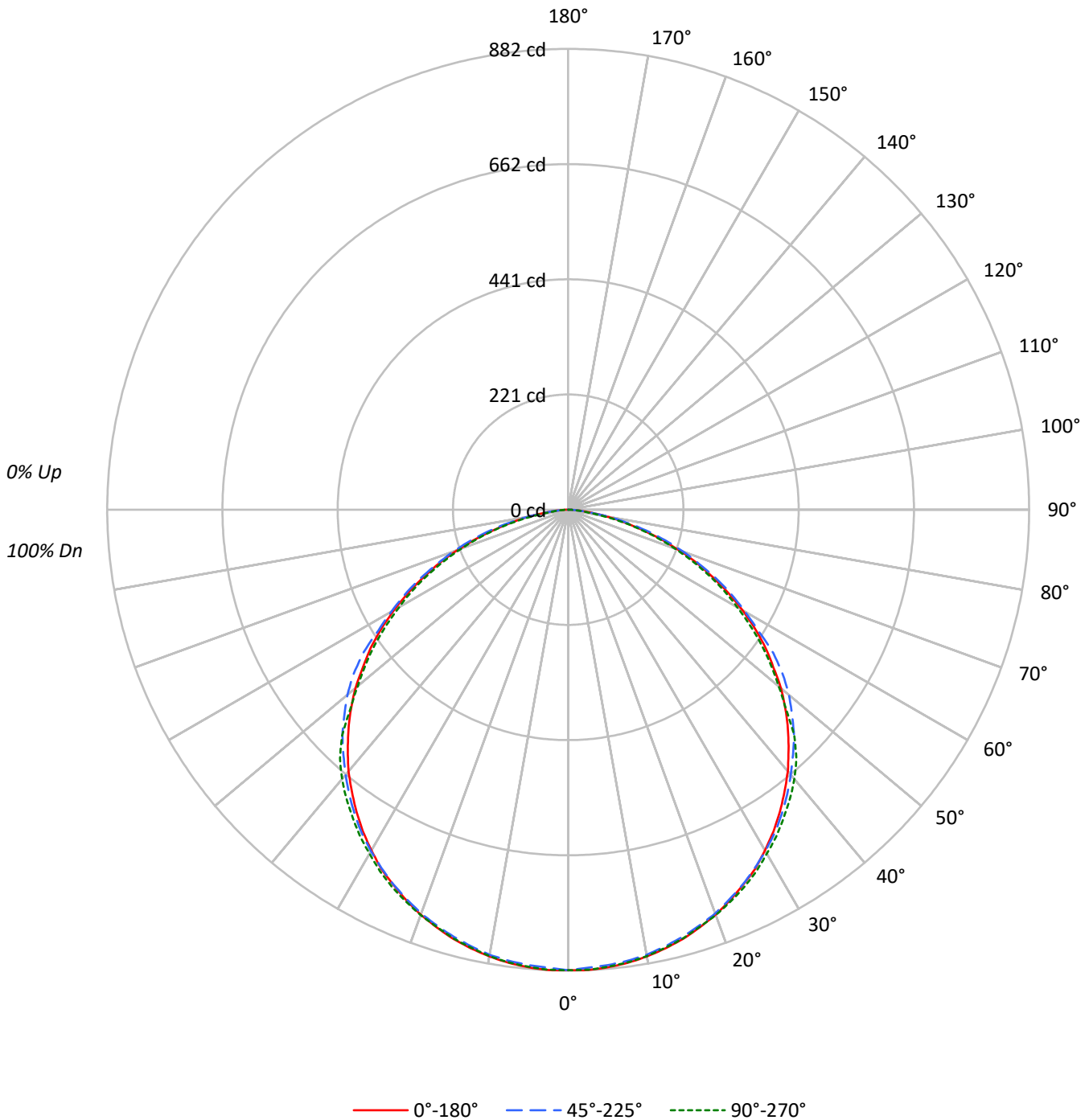
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2372	2372	2372
5°	2374	2363	2372
10°	2372	2363	2370
15°	2369	2357	2366
20°	2362	2355	2364
25°	2352	2349	2366
30°	2339	2344	2362
35°	2319	2338	2362
40°	2296	2328	2365
45°	2263	2325	2328
50°	2226	2308	2201
55°	2163	2248	2121
60°	2072	2103	2010
65°	1940	1992	1888
70°	1766	1836	1708
75°	1473	1609	1447
80°	1168	1230	1003
85°	760	658	580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	3.3
10°-20°	239.6	9.5
20°-30°	365.8	14.6
30°-40°	446.0	17.7
40°-50°	467.0	18.6
50°-60°	415.5	16.5
60°-70°	306.5	12.2
70°-80°	158.4	6.3
80°-90°	30.8	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°	688.9	27.4
0°-40°	1134.9	45.2
0°-60°	2017.3	80.3
0°-90°	2513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	879	878	875	878	878	84
15°	850	849	846	849	849	240
25°	792	792	791	797	797	365
35°	706	707	712	720	719	442
45°	595	599	611	617	612	459
55°	461	471	479	459	452	411
65°	305	326	313	302	296	302
75°	142	156	155	142	139	153
85°	25	27	21	20	19	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	881.3	881.3	881.3	881.3	881.3
2.5°	882.1	881.3	877.2	881.3	881.3
5°	878.9	878.0	874.8	878.0	878.0
7.5°	874.8	873.9	870.7	873.9	873.9
10°	868.2	867.4	864.9	868.2	867.4
12.5°	860.0	860.0	855.9	860.0	858.4
15°	850.2	849.4	846.1	849.4	849.4
17.5°	837.9	837.1	834.6	838.7	837.1
20°	824.8	824.0	822.3	826.4	825.6
22.5°	809.2	809.2	806.8	811.7	811.7
25°	792.0	792.0	791.2	797.0	797.0
27.5°	774.8	773.2	773.2	778.9	779.8
30°	752.7	752.7	754.4	760.9	760.1
32.5°	730.6	731.4	734.7	740.4	741.3
35°	706.0	706.9	711.8	720.0	719.1
37.5°	679.8	682.3	688.0	697.0	697.0
40°	653.6	655.3	662.6	672.5	673.3
42.5°	624.1	628.2	636.4	647.9	646.2
45°	594.6	598.7	611.0	616.8	611.8
47.5°	563.5	568.4	580.7	581.5	565.2
50°	531.6	537.3	551.2	534.9	525.8
52.5°	494.7	505.4	517.7	494.7	489.0
55°	461.1	471.0	479.2	458.7	452.1
57.5°	423.5	436.6	430.8	421.0	412.8
60°	385.0	398.9	390.7	380.9	373.5
62.5°	345.6	361.2	353.0	343.2	336.6
65°	304.7	326.0	312.9	302.2	296.5
67.5°	266.2	286.7	271.1	262.9	257.2
70°	224.4	241.6	233.4	222.8	217.1
72.5°	183.5	196.6	194.1	182.7	178.6
75°	141.7	156.4	154.8	142.5	139.2
77.5°	106.5	120.4	115.5	105.7	101.6
80°	75.4	84.4	79.4	68.0	64.7
82.5°	45.9	53.2	45.0	38.5	35.2
85°	24.6	27.0	21.3	19.7	18.8
87.5°	9.0	9.0	9.0	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)