

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: P259024

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259024  
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-L92765-W2A1-U-3500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2238.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 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

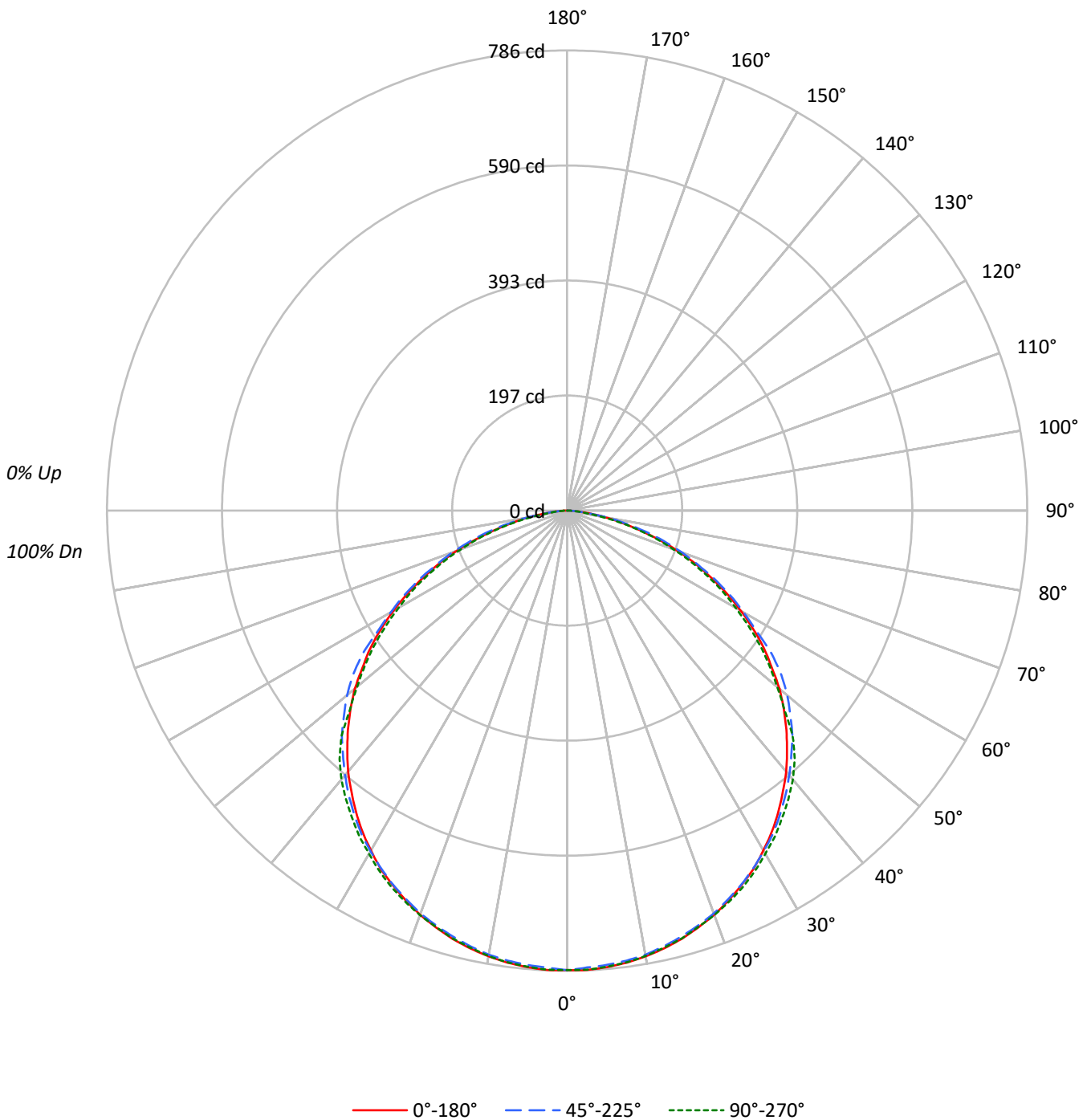
Input Watts (W): 31.062  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2112	2112	2112
5°	2114	2104	2112
10°	2113	2105	2111
15°	2109	2099	2107
20°	2103	2097	2106
25°	2094	2092	2107
30°	2083	2087	2103
35°	2066	2082	2104
40°	2045	2073	2106
45°	2015	2071	2074
50°	1982	2055	1961
55°	1927	2002	1889
60°	1845	1872	1790
65°	1728	1774	1682
70°	1573	1636	1521
75°	1312	1434	1289
80°	1040	1097	893
85°	676	587	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.3	3.3
10°-20°	213.4	9.5
20°-30°	325.8	14.6
30°-40°	397.2	17.7
40°-50°	415.9	18.6
50°-60°	370.0	16.5
60°-70°	273.0	12.2
70°-80°	141.1	6.3
80°-90°	27.4	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°	613.5	27.4
0°-40°	1010.7	45.2
0°-60°	1796.6	80.3
0°-90°	2238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	783	782	779	782	782	74
15°	757	756	754	756	756	214
25°	705	705	705	710	710	325
35°	629	630	634	641	640	393
45°	530	533	544	549	545	408
55°	411	419	427	408	403	366
65°	271	290	279	269	264	269
75°	126	139	138	127	124	136
85°	22	24	19	18	17	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	784.9	784.9	784.9	784.9	784.9
2.5°	785.6	784.9	781.2	784.9	784.9
5°	782.7	782.0	779.0	782.0	782.0
7.5°	779.0	778.3	775.4	778.3	778.3
10°	773.2	772.5	770.3	773.2	772.5
12.5°	765.9	765.9	762.3	765.9	764.5
15°	757.2	756.4	753.5	756.4	756.4
17.5°	746.2	745.5	743.3	746.9	745.5
20°	734.5	733.8	732.4	736.0	735.3
22.5°	720.7	720.7	718.5	722.9	722.9
25°	705.4	705.4	704.6	709.7	709.7
27.5°	690.0	688.6	688.6	693.7	694.4
30°	670.4	670.4	671.8	677.6	676.9
32.5°	650.7	651.4	654.3	659.4	660.1
35°	628.8	629.5	633.9	641.2	640.4
37.5°	605.4	607.6	612.7	620.8	620.8
40°	582.1	583.6	590.1	598.9	599.6
42.5°	555.8	559.5	566.8	577.0	575.5
45°	529.6	533.2	544.2	549.3	544.9
47.5°	501.9	506.2	517.2	517.9	503.3
50°	473.4	478.5	490.9	476.3	468.3
52.5°	440.6	450.1	461.0	440.6	435.5
55°	410.7	419.4	426.7	408.5	402.6
57.5°	377.1	388.8	383.7	374.9	367.6
60°	342.8	355.2	347.9	339.2	332.6
62.5°	307.8	321.7	314.4	305.6	299.8
65°	271.4	290.3	278.6	269.2	264.1
67.5°	237.1	255.3	241.4	234.1	229.0
70°	199.9	215.2	207.9	198.4	193.3
72.5°	163.4	175.1	172.9	162.7	159.0
75°	126.2	139.3	137.9	126.9	124.0
77.5°	94.8	107.2	102.9	94.1	90.5
80°	67.1	75.1	70.8	60.5	57.6
82.5°	40.8	47.4	40.1	34.3	31.4
85°	21.9	24.1	19.0	17.5	16.8
87.5°	8.0	8.0	8.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)