

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: P259030

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259030  
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-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2483.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

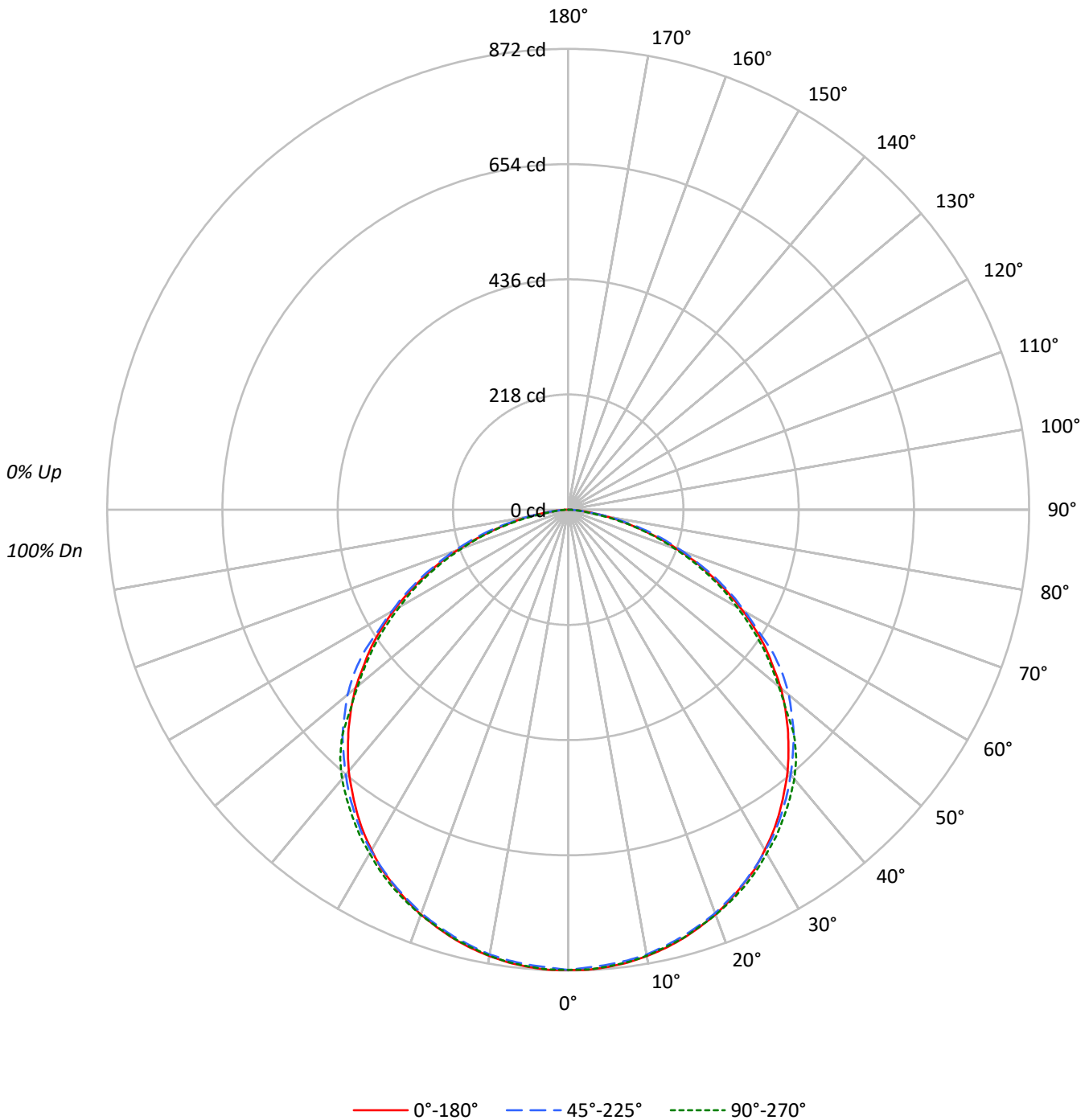
Input Watts (W): 32.457  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2343	2343	2343
5°	2346	2335	2344
10°	2344	2335	2342
15°	2340	2329	2338
20°	2334	2327	2336
25°	2324	2321	2338
30°	2311	2316	2334
35°	2292	2310	2334
40°	2269	2300	2337
45°	2236	2297	2300
50°	2199	2280	2175
55°	2137	2221	2096
60°	2047	2077	1986
65°	1917	1968	1866
70°	1744	1814	1688
75°	1456	1591	1431
80°	1155	1216	990
85°	750	648	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.3
10°-20°	236.8	9.5
20°-30°	361.4	14.6
30°-40°	440.7	17.7
40°-50°	461.4	18.6
50°-60°	410.5	16.5
60°-70°	302.9	12.2
70°-80°	156.5	6.3
80°-90°	30.4	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°	680.6	27.4
0°-40°	1121.3	45.2
0°-60°	1993.2	80.3
0°-90°	2483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2483.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	868	868	864	868	868	83
15°	840	839	836	839	839	237
25°	783	783	782	787	787	361
35°	698	698	703	711	711	436
45°	588	592	604	609	604	453
55°	456	465	473	453	447	406
65°	301	322	309	299	293	298
75°	140	155	153	141	138	151
85°	24	27	21	19	19	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	870.8	870.8	870.8	870.8	870.8
2.5°	871.6	870.8	866.8	870.8	870.8
5°	868.4	867.6	864.3	867.6	867.6
7.5°	864.3	863.5	860.3	863.5	863.5
10°	857.8	857.0	854.6	857.8	857.0
12.5°	849.8	849.8	845.7	849.8	848.1
15°	840.0	839.2	836.0	839.2	839.2
17.5°	827.9	827.1	824.7	828.7	827.1
20°	815.0	814.1	812.5	816.6	815.8
22.5°	799.6	799.6	797.2	802.0	802.0
25°	782.6	782.6	781.8	787.4	787.4
27.5°	765.6	764.0	764.0	769.6	770.4
30°	743.7	743.7	745.4	751.8	751.0
32.5°	721.9	722.7	725.9	731.6	732.4
35°	697.6	698.4	703.3	711.4	710.6
37.5°	671.7	674.1	679.8	688.7	688.7
40°	645.8	647.4	654.7	664.4	665.2
42.5°	616.7	620.7	628.8	640.1	638.5
45°	587.5	591.6	603.7	609.4	604.5
47.5°	556.8	561.6	573.8	574.6	558.4
50°	525.2	530.9	544.7	528.5	519.6
52.5°	488.8	499.3	511.5	488.8	483.1
55°	455.6	465.3	473.4	453.2	446.7
57.5°	418.4	431.4	425.7	416.0	407.9
60°	380.4	394.1	386.0	376.3	369.0
62.5°	341.5	356.9	348.8	339.1	332.6
65°	301.1	322.1	309.1	298.6	293.0
67.5°	263.0	283.3	267.9	259.8	254.1
70°	221.7	238.7	230.6	220.1	214.5
72.5°	181.3	194.2	191.8	180.5	176.4
75°	140.0	154.6	153.0	140.8	137.6
77.5°	105.2	119.0	114.1	104.4	100.4
80°	74.5	83.4	78.5	67.2	63.9
82.5°	45.3	52.6	44.5	38.0	34.8
85°	24.3	26.7	21.0	19.4	18.6
87.5°	8.9	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)