

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: P258944

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258944  
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-LD5-25-RDP-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1647.0 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

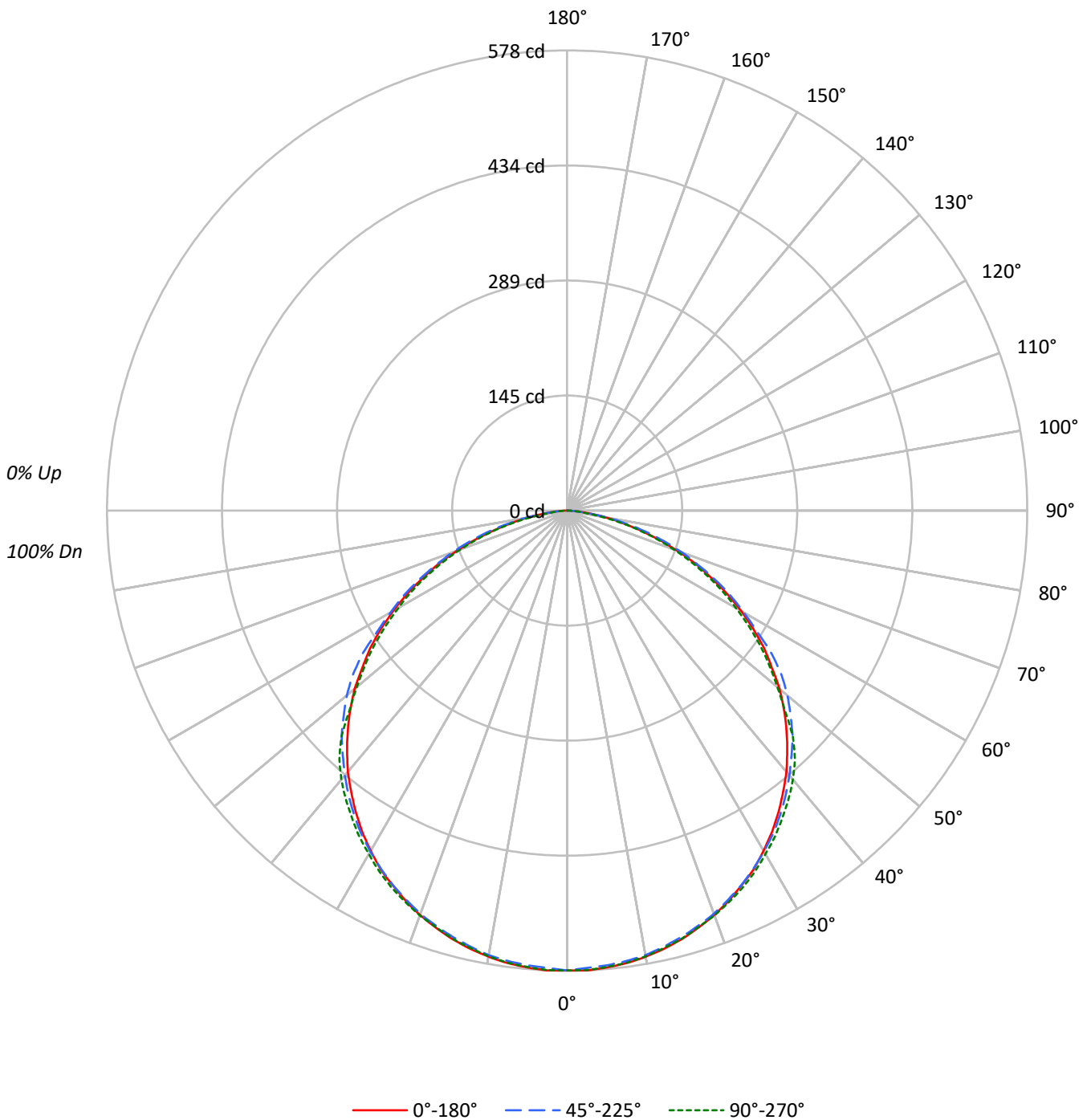
Input Watts (W): 18.414  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258944

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P258944

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

**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°	1554	1554	1554
5°	1556	1549	1555
10°	1555	1549	1553
15°	1552	1545	1551
20°	1548	1544	1550
25°	1541	1540	1551
30°	1533	1536	1548
35°	1520	1532	1548
40°	1505	1526	1550
45°	1483	1524	1526
50°	1459	1513	1443
55°	1418	1473	1390
60°	1358	1378	1318
65°	1272	1306	1237
70°	1157	1204	1120
75°	966	1055	949
80°	766	807	657
85°	497	432	380



TEST NUMBER: P258944

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	3.3
10°-20°	157.1	9.5
20°-30°	239.7	14.6
30°-40°	292.3	17.7
40°-50°	306.1	18.6
50°-60°	272.3	16.5
60°-70°	200.9	12.2
70°-80°	103.8	6.3
80°-90°	20.2	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°	451.5	27.4
0°-40°	743.8	45.2
0°-60°	1322.1	80.3
0°-90°	1647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	576	576	573	576	576	55
15°	557	557	554	557	557	157
25°	519	519	519	522	522	239
35°	463	463	466	472	471	289
45°	390	392	400	404	401	301
55°	302	309	314	301	296	269
65°	200	214	205	198	194	198
75°	93	102	102	93	91	100
85°	16	18	14	13	12	21
90°	0	0	0	0	0	



TEST NUMBER: P258944

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	577.6	577.6	577.6	577.6	577.6
2.5°	578.1	577.6	574.9	577.6	577.6
5°	576.0	575.5	573.3	575.5	575.5
7.5°	573.3	572.8	570.6	572.8	572.8
10°	569.0	568.5	566.9	569.0	568.5
12.5°	563.7	563.7	561.0	563.7	562.6
15°	557.2	556.7	554.5	556.7	556.7
17.5°	549.2	548.6	547.0	549.7	548.6
20°	540.6	540.0	539.0	541.6	541.1
22.5°	530.4	530.4	528.8	532.0	532.0
25°	519.1	519.1	518.6	522.3	522.3
27.5°	507.8	506.8	506.8	510.5	511.0
30°	493.3	493.3	494.4	498.7	498.2
32.5°	478.8	479.4	481.5	485.3	485.8
35°	462.7	463.3	466.5	471.9	471.3
37.5°	445.6	447.2	450.9	456.8	456.8
40°	428.4	429.4	434.3	440.7	441.3
42.5°	409.1	411.7	417.1	424.6	423.5
45°	389.7	392.4	400.5	404.2	401.0
47.5°	369.3	372.5	380.6	381.1	370.4
50°	348.4	352.1	361.3	350.5	344.6
52.5°	324.2	331.2	339.3	324.2	320.5
55°	302.2	308.7	314.0	300.6	296.3
57.5°	277.5	286.1	282.4	275.9	270.6
60°	252.3	261.4	256.1	249.6	244.8
62.5°	226.5	236.7	231.4	224.9	220.6
65°	199.7	213.7	205.1	198.1	194.3
67.5°	174.5	187.9	177.7	172.3	168.6
70°	147.1	158.4	153.0	146.0	142.3
72.5°	120.2	128.8	127.2	119.7	117.0
75°	92.9	102.5	101.5	93.4	91.3
77.5°	69.8	78.9	75.7	69.2	66.6
80°	49.4	55.3	52.1	44.6	42.4
82.5°	30.1	34.9	29.5	25.2	23.1
85°	16.1	17.7	14.0	12.9	12.3
87.5°	5.9	5.9	5.9	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)