

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: P259117

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1659.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

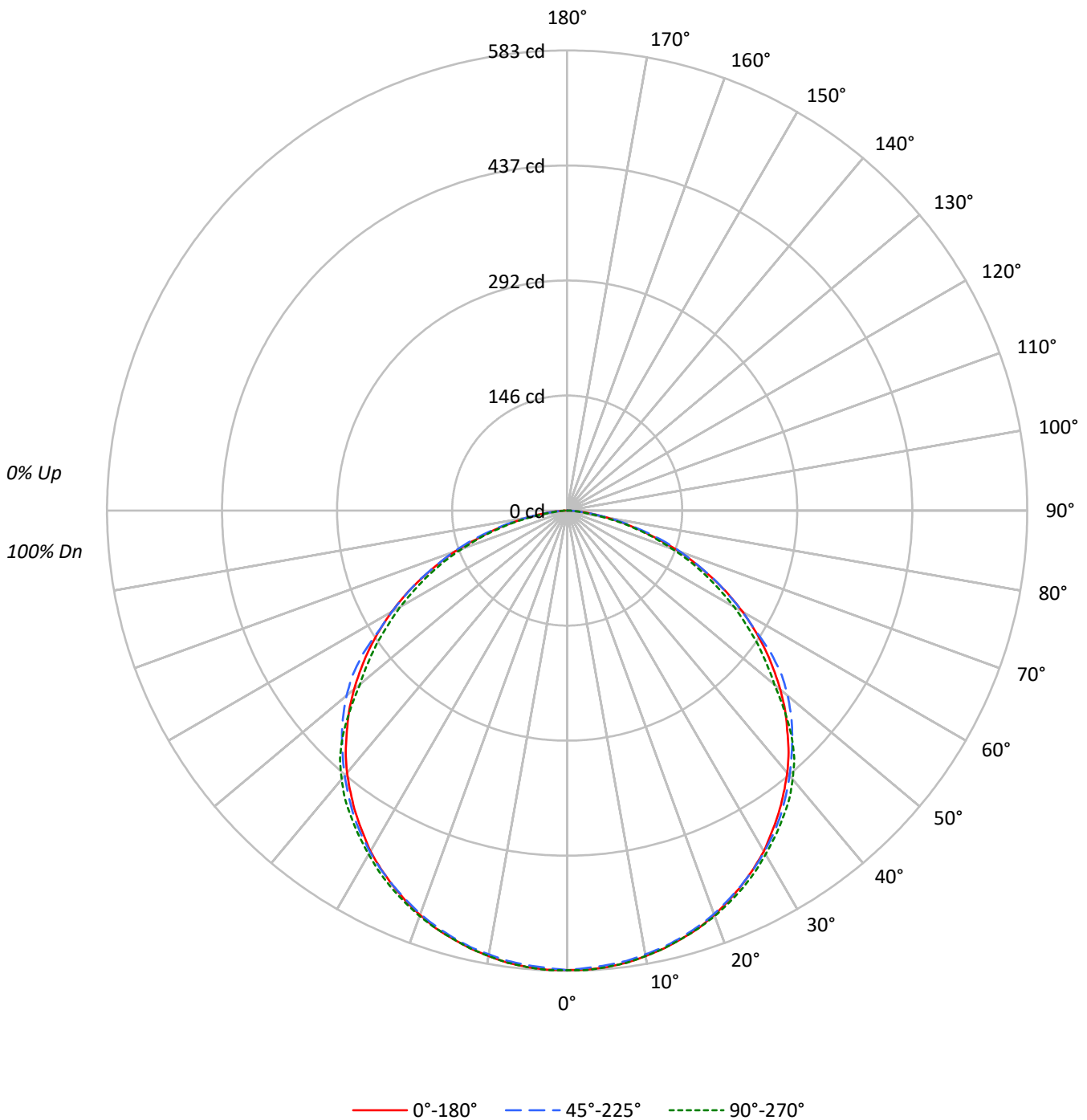
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P259117

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P259117

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-6500K

**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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1567	1567	1567
5°	1568	1562	1568
10°	1566	1560	1566
15°	1564	1559	1564
20°	1561	1558	1566
25°	1555	1553	1565
30°	1549	1552	1563
35°	1536	1549	1564
40°	1524	1540	1561
45°	1501	1536	1529
50°	1475	1527	1435
55°	1437	1479	1382
60°	1382	1379	1315
65°	1295	1302	1231
70°	1190	1202	1114
75°	999	1046	952
80°	792	810	671
85°	522	451	383



TEST NUMBER: P259117

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	3.3
10°-20°	158.5	9.6
20°-30°	242.0	14.6
30°-40°	295.2	17.8
40°-50°	308.7	18.6
50°-60°	273.3	16.5
60°-70°	201.3	12.1
70°-80°	104.2	6.3
80°-90°	20.8	1.3
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°	455.6	27.5
0°-40°	750.8	45.3
0°-60°	1332.8	80.3
0°-90°	1659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	580	580	578	580	580	55
15°	561	561	560	562	561	159
25°	524	524	523	526	527	241
35°	468	469	472	476	476	292
45°	394	398	404	407	402	305
55°	306	312	315	299	294	273
65°	203	216	204	197	193	202
75°	96	103	101	94	92	103
85°	17	18	15	13	12	22
90°	0	0	0	0	0	



TEST NUMBER: P259117

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.2	582.2	582.2	582.2	582.2
2.5°	582.2	582.2	579.9	582.2	582.7
5°	580.5	580.5	578.2	580.5	580.5
7.5°	577.7	577.1	575.4	577.7	577.7
10°	573.2	573.2	570.9	573.7	573.2
12.5°	568.1	567.6	566.4	568.7	568.1
15°	561.4	561.4	559.7	561.9	561.4
17.5°	554.6	554.1	552.4	554.6	554.6
20°	545.1	544.5	544.0	546.2	546.8
22.5°	535.0	534.4	533.8	537.2	537.2
25°	523.7	523.7	523.2	526.5	527.1
27.5°	511.4	511.4	511.9	516.4	515.9
30°	498.4	498.4	499.6	502.9	502.9
32.5°	482.7	483.8	486.1	490.0	490.0
35°	467.5	468.7	471.5	476.0	476.0
37.5°	450.7	452.4	455.2	460.8	461.9
40°	433.8	434.9	438.3	444.5	444.5
42.5°	415.3	416.4	420.9	427.1	426.0
45°	394.5	397.9	403.5	406.8	401.8
47.5°	374.8	377.1	384.9	381.0	372.6
50°	352.3	356.8	364.7	350.7	342.8
52.5°	329.3	334.4	342.8	323.1	318.6
55°	306.3	312.4	315.2	299.0	294.5
57.5°	281.5	288.3	282.7	273.1	268.6
60°	256.8	264.7	256.2	247.3	244.4
62.5°	231.0	239.9	230.4	222.5	218.6
65°	203.4	215.8	204.5	196.7	193.3
67.5°	176.4	189.4	177.6	170.8	168.6
70°	151.2	158.5	152.8	146.1	141.6
72.5°	120.8	128.1	127.0	119.7	116.9
75°	96.1	102.8	100.6	94.4	91.6
77.5°	71.4	78.7	76.4	69.1	68.0
80°	51.1	56.2	52.3	45.5	43.3
82.5°	32.0	36.0	30.9	25.8	24.7
85°	16.9	18.0	14.6	12.9	12.4
87.5°	5.6	6.2	6.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)