

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: P259047

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259047  
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-L83050-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1666.0 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

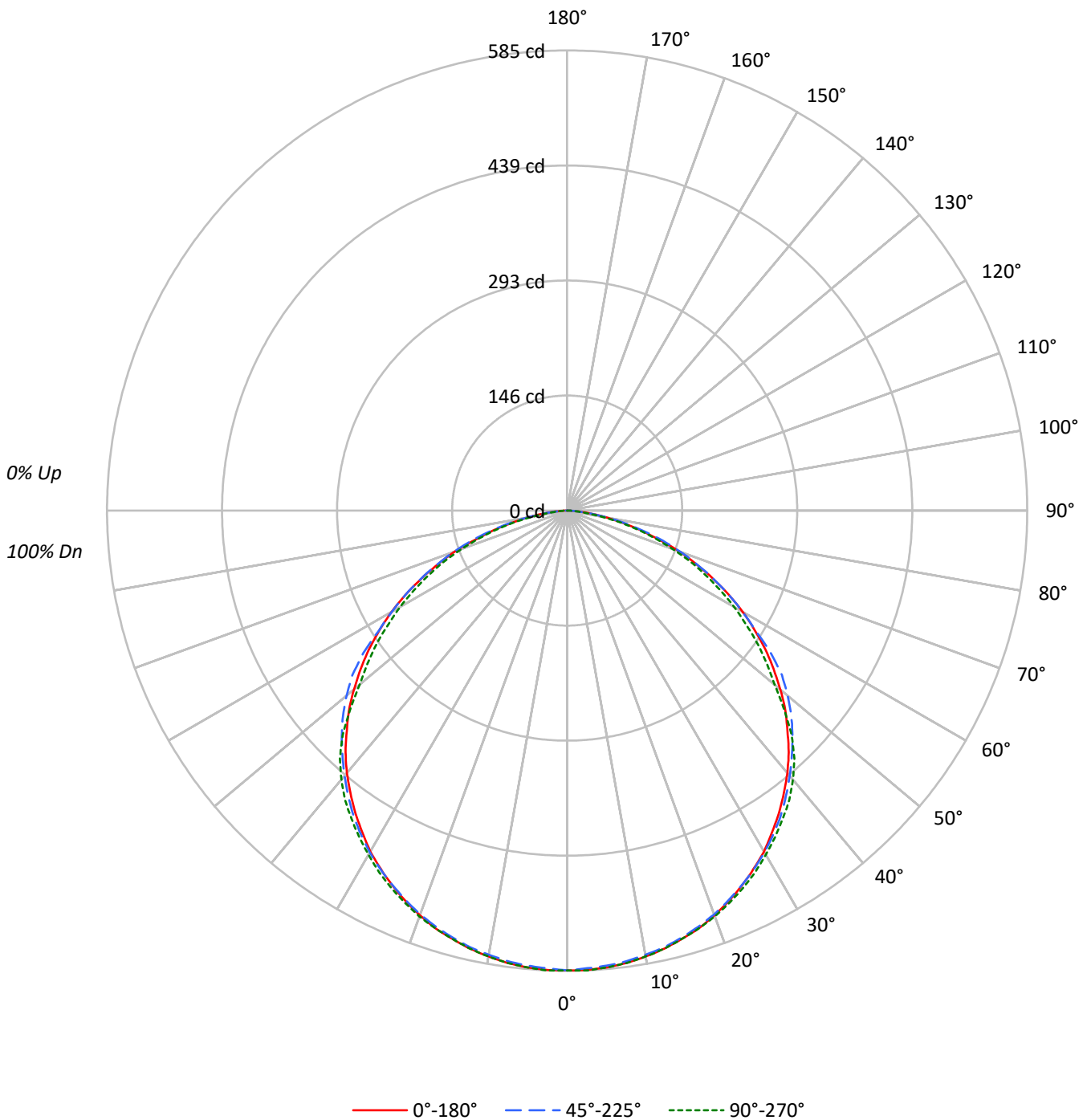
Input Watts (W): 18.693  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1573	1573	1573
5°	1575	1569	1575
10°	1573	1567	1573
15°	1570	1566	1570
20°	1568	1564	1572
25°	1561	1560	1572
30°	1555	1559	1569
35°	1542	1555	1570
40°	1530	1546	1568
45°	1507	1542	1536
50°	1481	1533	1441
55°	1443	1485	1387
60°	1388	1385	1321
65°	1301	1308	1236
70°	1194	1208	1119
75°	1003	1050	957
80°	797	814	674
85°	522	454	383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	3.3
10°-20°	159.1	9.6
20°-30°	243.0	14.6
30°-40°	296.5	17.8
40°-50°	310.0	18.6
50°-60°	274.5	16.5
60°-70°	202.1	12.1
70°-80°	104.6	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°	457.5	27.5
0°-40°	753.9	45.3
0°-60°	1338.4	80.3
0°-90°	1666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	583	583	581	583	583	55
15°	564	564	562	564	564	159
25°	526	526	525	529	529	242
35°	470	471	474	478	478	294
45°	396	400	405	409	404	306
55°	308	314	317	300	296	274
65°	204	217	205	198	194	202
75°	96	103	101	95	92	103
85°	17	18	15	13	12	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	584.6	584.6	584.6	584.6	584.6
2.5°	584.6	584.6	582.4	584.6	585.2
5°	582.9	582.9	580.7	582.9	582.9
7.5°	580.1	579.5	577.9	580.1	580.1
10°	575.6	575.6	573.3	576.2	575.6
12.5°	570.5	570.0	568.8	571.1	570.5
15°	563.7	563.7	562.1	564.3	563.7
17.5°	557.0	556.4	554.7	557.0	557.0
20°	547.4	546.8	546.3	548.5	549.1
22.5°	537.2	536.7	536.1	539.5	539.5
25°	525.9	525.9	525.4	528.8	529.3
27.5°	513.5	513.5	514.1	518.6	518.0
30°	500.5	500.5	501.7	505.1	505.1
32.5°	484.7	485.9	488.1	492.1	492.1
35°	469.5	470.6	473.5	478.0	478.0
37.5°	452.6	454.3	457.1	462.7	463.9
40°	435.6	436.8	440.2	446.4	446.4
42.5°	417.0	418.2	422.7	428.9	427.7
45°	396.1	399.5	405.2	408.6	403.5
47.5°	376.4	378.7	386.6	382.6	374.1
50°	353.8	358.3	366.2	352.1	344.2
52.5°	330.7	335.8	344.2	324.5	320.0
55°	307.6	313.8	316.6	300.2	295.7
57.5°	282.7	289.5	283.8	274.3	269.7
60°	257.9	265.8	257.3	248.3	245.5
62.5°	231.9	241.0	231.4	223.5	219.5
65°	204.3	216.7	205.4	197.5	194.1
67.5°	177.2	190.2	178.3	171.6	169.3
70°	151.8	159.1	153.5	146.7	142.2
72.5°	121.3	128.7	127.5	120.2	117.4
75°	96.5	103.3	101.0	94.8	92.0
77.5°	71.7	79.0	76.7	69.4	68.3
80°	51.4	56.4	52.5	45.7	43.5
82.5°	32.2	36.1	31.0	26.0	24.8
85°	16.9	18.1	14.7	13.0	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)