

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: P258878

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258878  
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-L83050-W2A1-U-3500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1650.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

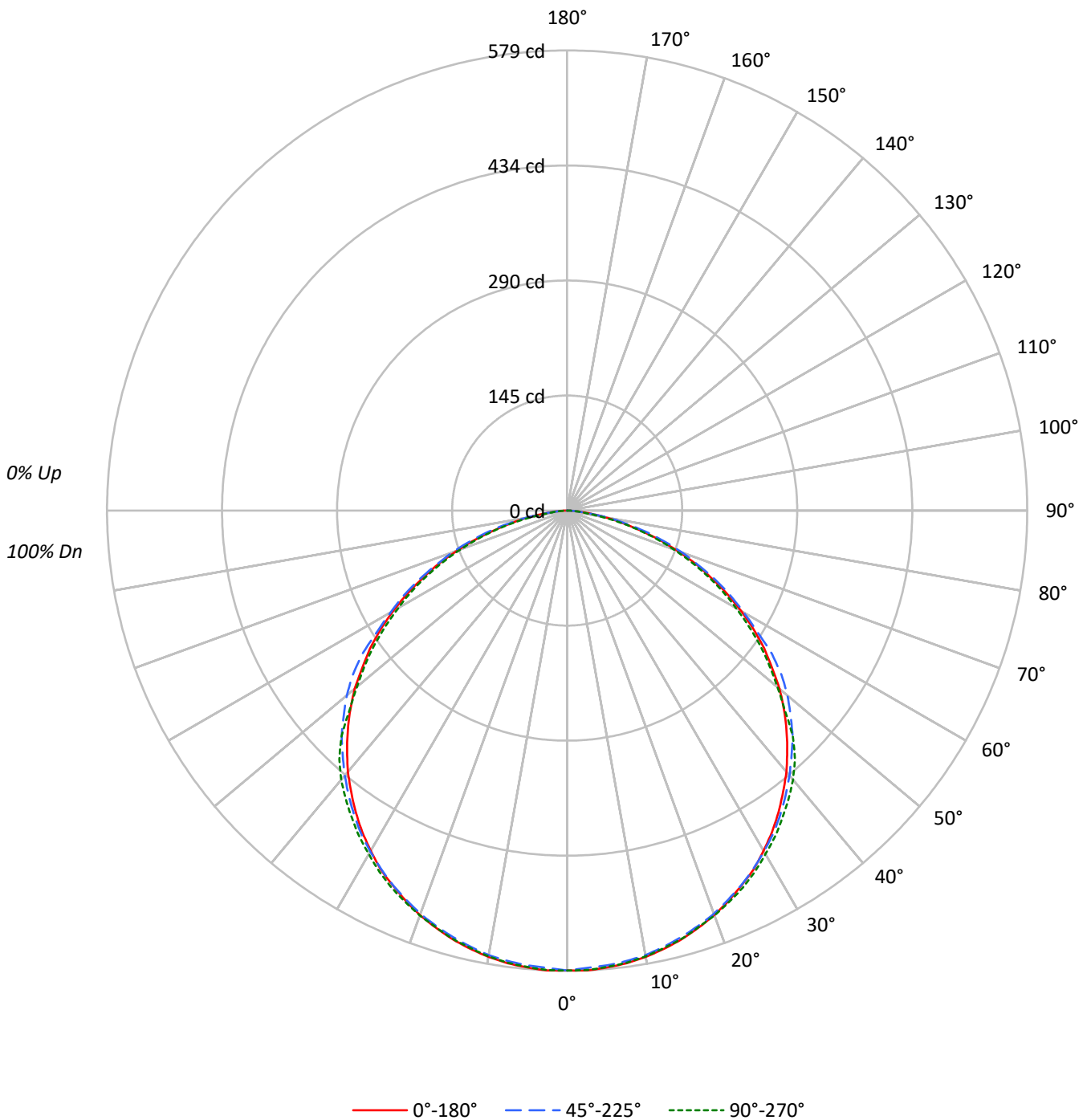
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1557	1557	1557
5°	1559	1552	1557
10°	1558	1552	1556
15°	1555	1548	1554
20°	1551	1546	1552
25°	1544	1542	1554
30°	1536	1539	1551
35°	1523	1535	1551
40°	1508	1528	1553
45°	1486	1527	1529
50°	1461	1515	1446
55°	1421	1476	1393
60°	1361	1380	1320
65°	1274	1308	1240
70°	1160	1206	1121
75°	967	1056	950
80°	767	809	659
85°	497	432	383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	3.3
10°-20°	157.3	9.5
20°-30°	240.2	14.6
30°-40°	292.8	17.7
40°-50°	306.6	18.6
50°-60°	272.8	16.5
60°-70°	201.2	12.2
70°-80°	104.0	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°	452.3	27.4
0°-40°	745.1	45.2
0°-60°	1324.5	80.3
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	577	576	574	576	576	55
15°	558	558	556	558	558	158
25°	520	520	520	523	523	240
35°	464	464	467	473	472	290
45°	390	393	401	405	402	301
55°	303	309	315	301	297	270
65°	200	214	205	198	195	198
75°	93	103	102	94	91	101
85°	16	18	14	13	12	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	578.7	578.7	578.7	578.7	578.7
2.5°	579.2	578.7	576.0	578.7	578.7
5°	577.0	576.5	574.4	576.5	576.5
7.5°	574.4	573.8	571.7	573.8	573.8
10°	570.1	569.5	567.9	570.1	569.5
12.5°	564.7	564.7	562.0	564.7	563.6
15°	558.2	557.7	555.5	557.7	557.7
17.5°	550.2	549.6	548.0	550.7	549.6
20°	541.6	541.0	539.9	542.6	542.1
22.5°	531.3	531.3	529.7	532.9	532.9
25°	520.0	520.0	519.5	523.3	523.3
27.5°	508.7	507.7	507.7	511.4	512.0
30°	494.2	494.2	495.3	499.6	499.1
32.5°	479.7	480.2	482.4	486.2	486.7
35°	463.6	464.1	467.3	472.7	472.2
37.5°	446.4	448.0	451.7	457.7	457.7
40°	429.2	430.2	435.1	441.5	442.1
42.5°	409.8	412.5	417.9	425.4	424.3
45°	390.4	393.1	401.2	405.0	401.7
47.5°	370.0	373.2	381.3	381.8	371.1
50°	349.0	352.8	361.9	351.2	345.3
52.5°	324.8	331.8	339.9	324.8	321.1
55°	302.8	309.2	314.6	301.2	296.9
57.5°	278.0	286.6	282.9	276.4	271.0
60°	252.8	261.9	256.5	250.1	245.2
62.5°	226.9	237.2	231.8	225.3	221.0
65°	200.1	214.0	205.4	198.4	194.7
67.5°	174.8	188.2	178.0	172.6	168.9
70°	147.4	158.6	153.3	146.3	142.5
72.5°	120.5	129.1	127.5	119.9	117.2
75°	93.0	102.7	101.6	93.6	91.4
77.5°	69.9	79.1	75.8	69.4	66.7
80°	49.5	55.4	52.2	44.6	42.5
82.5°	30.1	35.0	29.6	25.3	23.1
85°	16.1	17.7	14.0	12.9	12.4
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)