

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: P258877

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258877  
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-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1559.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

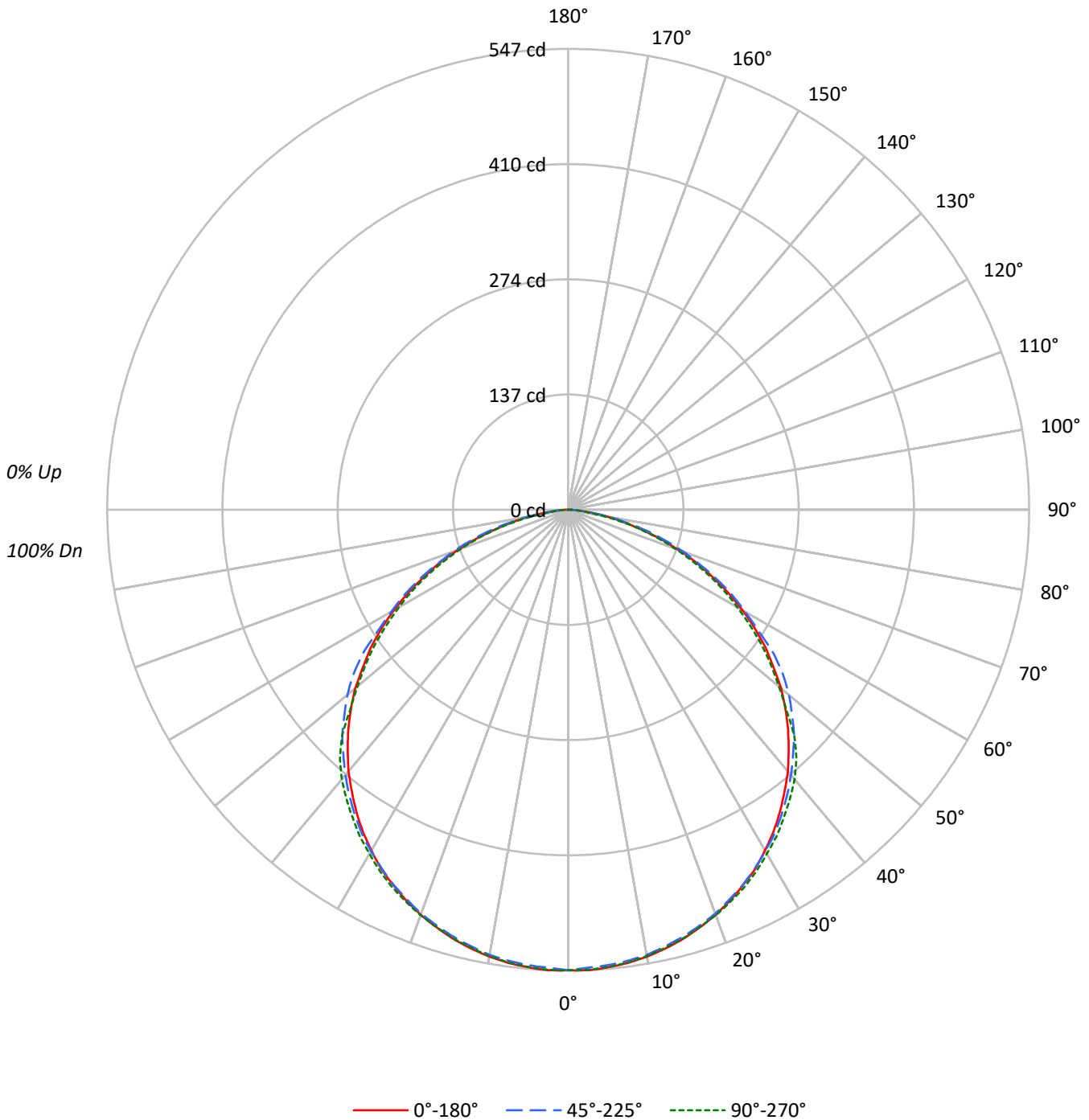
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1471	1471	1471
5°	1473	1466	1471
10°	1472	1466	1470
15°	1469	1462	1468
20°	1465	1461	1467
25°	1459	1458	1468
30°	1451	1454	1465
35°	1439	1451	1465
40°	1424	1444	1467
45°	1404	1443	1445
50°	1381	1432	1366
55°	1342	1395	1316
60°	1285	1305	1247
65°	1203	1236	1171
70°	1095	1139	1060
75°	914	998	898
80°	724	764	621
85°	469	408	361



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	3.3
10°-20°	148.7	9.5
20°-30°	226.9	14.6
30°-40°	276.7	17.7
40°-50°	289.7	18.6
50°-60°	257.7	16.5
60°-70°	190.1	12.2
70°-80°	98.2	6.3
80°-90°	19.1	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°	427.4	27.4
0°-40°	704.1	45.2
0°-60°	1251.5	80.3
0°-90°	1559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	545	545	543	545	545	52
15°	527	527	525	527	527	149
25°	491	491	491	494	494	227
35°	438	438	442	447	446	274
45°	369	371	379	383	380	284
55°	286	292	297	285	280	255
65°	189	202	194	188	184	187
75°	88	97	96	88	86	95
85°	15	17	13	12	12	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	547.3	546.7	544.2	546.7	546.7
5°	545.2	544.7	542.7	544.7	544.7
7.5°	542.7	542.2	540.1	542.2	542.2
10°	538.6	538.1	536.6	538.6	538.1
12.5°	533.5	533.5	531.0	533.5	532.5
15°	527.4	526.9	524.9	526.9	526.9
17.5°	519.8	519.3	517.8	520.3	519.3
20°	511.7	511.2	510.2	512.7	512.2
22.5°	502.0	502.0	500.5	503.6	503.6
25°	491.4	491.4	490.9	494.4	494.4
27.5°	480.7	479.7	479.7	483.2	483.7
30°	467.0	467.0	468.0	472.1	471.5
32.5°	453.3	453.8	455.8	459.3	459.9
35°	438.0	438.5	441.6	446.6	446.1
37.5°	421.7	423.3	426.8	432.4	432.4
40°	405.5	406.5	411.1	417.2	417.7
42.5°	387.2	389.7	394.8	401.9	400.9
45°	368.9	371.4	379.1	382.6	379.6
47.5°	349.6	352.6	360.3	360.8	350.6
50°	329.8	333.3	342.0	331.8	326.2
52.5°	306.9	313.5	321.1	306.9	303.4
55°	286.1	292.2	297.3	284.6	280.5
57.5°	262.7	270.8	267.3	261.2	256.1
60°	238.8	247.5	242.4	236.3	231.7
62.5°	214.4	224.1	219.0	212.9	208.8
65°	189.0	202.2	194.1	187.5	183.9
67.5°	165.1	177.8	168.2	163.1	159.6
70°	139.2	149.9	144.8	138.2	134.7
72.5°	113.8	122.0	120.4	113.3	110.8
75°	87.9	97.1	96.0	88.4	86.4
77.5°	66.1	74.7	71.6	65.5	63.0
80°	46.7	52.3	49.3	42.2	40.1
82.5°	28.5	33.0	27.9	23.9	21.8
85°	15.2	16.8	13.2	12.2	11.7
87.5°	5.6	5.6	5.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)