

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: P258880

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258880
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1749.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

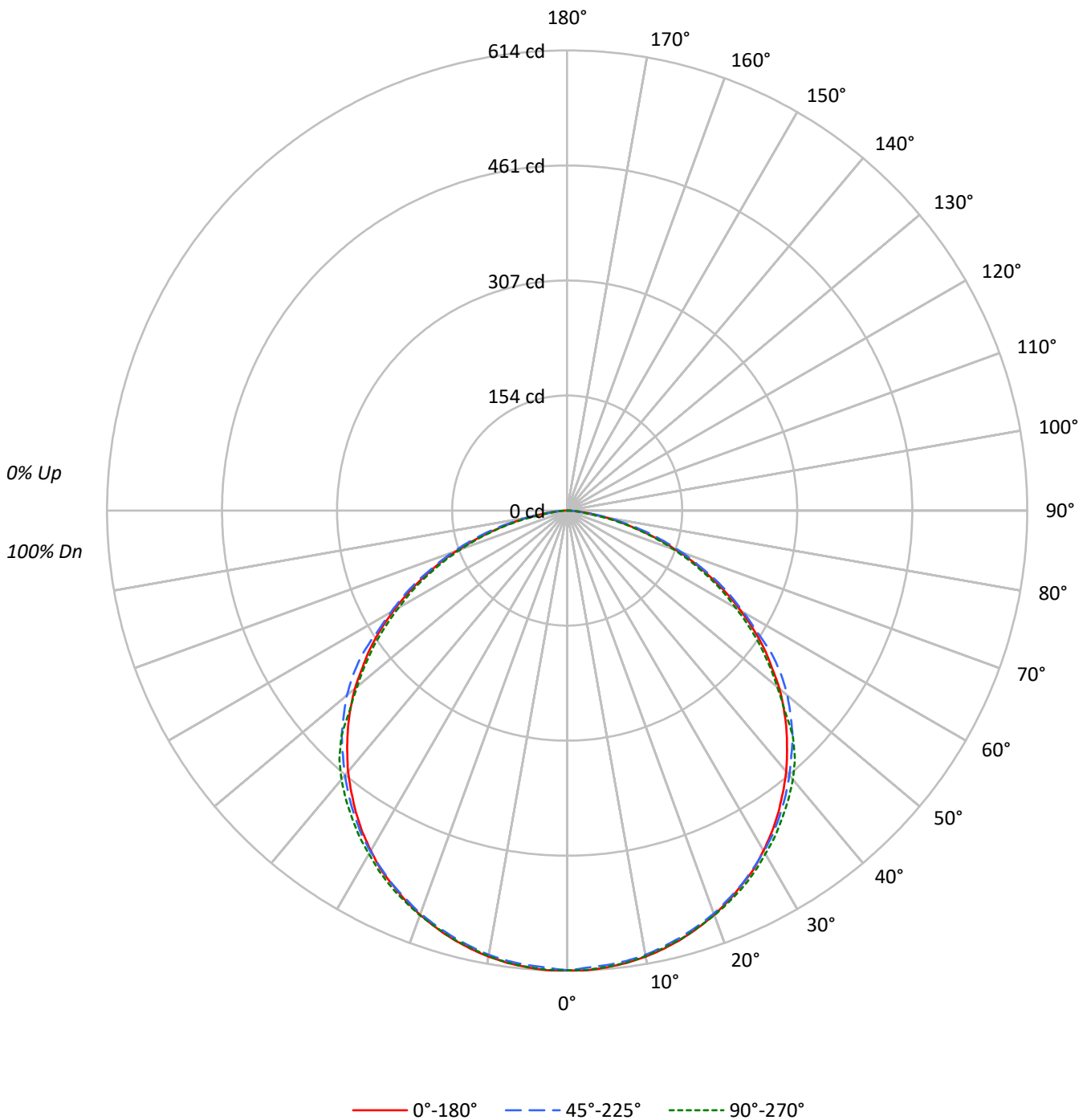
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1651	1651	1651
5°	1652	1645	1651
10°	1651	1645	1650
15°	1648	1641	1647
20°	1644	1639	1645
25°	1637	1635	1647
30°	1628	1631	1644
35°	1614	1627	1644
40°	1598	1620	1646
45°	1575	1619	1620
50°	1549	1606	1532
55°	1506	1565	1476
60°	1442	1463	1399
65°	1351	1387	1314
70°	1229	1279	1189
75°	1025	1120	1007
80°	812	857	697
85°	528	457	404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.3
10°-20°	166.8	9.5
20°-30°	254.6	14.6
30°-40°	310.4	17.7
40°-50°	325.0	18.6
50°-60°	289.1	16.5
60°-70°	213.3	12.2
70°-80°	110.2	6.3
80°-90°	21.4	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°	479.4	27.4
0°-40°	789.8	45.2
0°-60°	1404.0	80.3
0°-90°	1749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	612	611	609	611	611	58
15°	592	591	589	591	591	167
25°	551	551	551	555	555	254
35°	491	492	495	501	500	307
45°	414	417	425	429	426	319
55°	321	328	334	319	315	286
65°	212	227	218	210	206	210
75°	99	109	108	99	97	107
85°	17	19	15	14	13	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.4	613.4	613.4	613.4	613.4
2.5°	614.0	613.4	610.5	613.4	613.4
5°	611.7	611.1	608.8	611.1	611.1
7.5°	608.8	608.3	606.0	608.3	608.3
10°	604.3	603.7	602.0	604.3	603.7
12.5°	598.6	598.6	595.7	598.6	597.4
15°	591.7	591.1	588.9	591.1	591.1
17.5°	583.2	582.6	580.9	583.7	582.6
20°	574.0	573.5	572.3	575.2	574.6
22.5°	563.2	563.2	561.5	564.9	564.9
25°	551.2	551.2	550.7	554.7	554.7
27.5°	539.3	538.1	538.1	542.1	542.7
30°	523.9	523.9	525.0	529.6	529.0
32.5°	508.5	509.1	511.3	515.3	515.9
35°	491.4	492.0	495.4	501.1	500.5
37.5°	473.1	474.9	478.8	485.1	485.1
40°	454.9	456.0	461.2	468.0	468.6
42.5°	434.4	437.2	442.9	450.9	449.8
45°	413.9	416.7	425.3	429.3	425.8
47.5°	392.2	395.6	404.2	404.7	393.3
50°	370.0	374.0	383.6	372.2	366.0
52.5°	344.3	351.7	360.3	344.3	340.3
55°	320.9	327.8	333.5	319.2	314.7
57.5°	294.7	303.8	299.8	293.0	287.3
60°	267.9	277.6	271.9	265.1	259.9
62.5°	240.6	251.4	245.7	238.9	234.3
65°	212.1	226.9	217.8	210.4	206.4
67.5°	185.3	199.5	188.7	183.0	179.0
70°	156.2	168.2	162.5	155.1	151.1
72.5°	127.7	136.8	135.1	127.1	124.3
75°	98.6	108.9	107.7	99.2	96.9
77.5°	74.1	83.8	80.4	73.5	70.7
80°	52.4	58.7	55.3	47.3	45.0
82.5°	31.9	37.1	31.4	26.8	24.5
85°	17.1	18.8	14.8	13.7	13.1
87.5°	6.3	6.3	6.3	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)