

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: P258918

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258918
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-LD5-35-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2015.0 lumens
Efficiency: N/A
Efficacy: 72.0 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

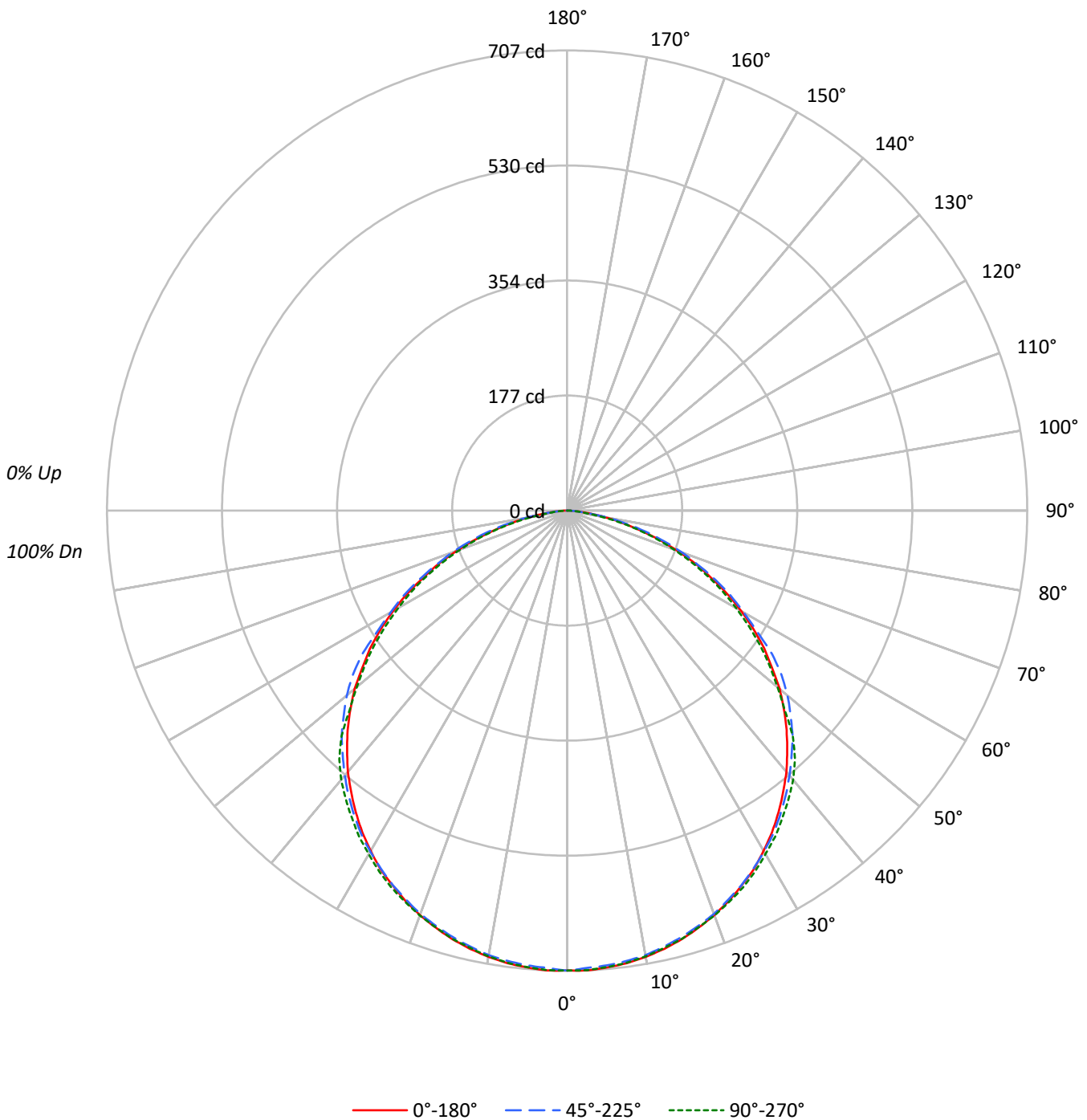
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258918

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258918

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3500K

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°	1902	1902	1902
5°	1904	1895	1902
10°	1902	1895	1900
15°	1899	1890	1897
20°	1894	1888	1896
25°	1886	1884	1897
30°	1876	1880	1894
35°	1860	1875	1894
40°	1841	1866	1897
45°	1815	1864	1867
50°	1784	1850	1765
55°	1735	1803	1701
60°	1661	1686	1612
65°	1556	1598	1514
70°	1416	1473	1369
75°	1181	1290	1160
80°	936	987	804
85°	608	528	466



TEST NUMBER: P258918

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.3
10°-20°	192.1	9.5
20°-30°	293.3	14.6
30°-40°	357.6	17.7
40°-50°	374.4	18.6
50°-60°	333.1	16.5
60°-70°	245.8	12.2
70°-80°	127.0	6.3
80°-90°	24.7	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°	552.4	27.4
0°-40°	910.0	45.2
0°-60°	1617.6	80.3
0°-90°	2015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	705	704	701	704	704	67
15°	682	681	678	681	681	192
25°	635	635	634	639	639	293
35°	566	567	571	577	577	354
45°	477	480	490	494	491	368
55°	370	378	384	368	362	329
65°	244	261	251	242	238	242
75°	114	125	124	114	112	123
85°	20	22	17	16	15	26
90°	0	0	0	0	0	



TEST NUMBER: P258918

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.7	706.7	706.7	706.7	706.7
2.5°	707.3	706.7	703.4	706.7	706.7
5°	704.7	704.0	701.4	704.0	704.0
7.5°	701.4	700.8	698.1	700.8	700.8
10°	696.2	695.5	693.5	696.2	695.5
12.5°	689.6	689.6	686.3	689.6	688.3
15°	681.7	681.1	678.4	681.1	681.1
17.5°	671.9	671.2	669.2	672.5	671.2
20°	661.4	660.7	659.4	662.7	662.0
22.5°	648.9	648.9	646.9	650.8	650.8
25°	635.1	635.1	634.4	639.0	639.0
27.5°	621.3	620.0	620.0	624.6	625.2
30°	603.6	603.6	604.9	610.1	609.5
32.5°	585.8	586.5	589.1	593.7	594.4
35°	566.1	566.8	570.7	577.3	576.6
37.5°	545.1	547.1	551.7	558.9	558.9
40°	524.1	525.4	531.3	539.2	539.9
42.5°	500.4	503.7	510.3	519.5	518.2
45°	476.8	480.1	489.9	494.5	490.6
47.5°	451.8	455.8	465.6	466.3	453.2
50°	426.2	430.8	442.0	428.9	421.6
52.5°	396.7	405.2	415.1	396.7	392.1
55°	369.8	377.6	384.2	367.8	362.5
57.5°	339.5	350.1	345.5	337.6	331.0
60°	308.7	319.8	313.3	305.4	299.5
62.5°	277.2	289.6	283.1	275.2	269.9
65°	244.3	261.4	250.9	242.3	237.7
67.5°	213.4	229.9	217.4	210.8	206.2
70°	180.0	193.7	187.2	178.6	174.0
72.5°	147.1	157.6	155.7	146.5	143.2
75°	113.6	125.4	124.1	114.3	111.6
77.5°	85.4	96.5	92.6	84.7	81.4
80°	60.4	67.6	63.7	54.5	51.9
82.5°	36.8	42.7	36.1	30.9	28.2
85°	19.7	21.7	17.1	15.8	15.1
87.5°	7.2	7.2	7.2	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)