

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: P258921

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258921
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214.0 lumens
Efficiency: N/A
Efficacy: 77.5 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

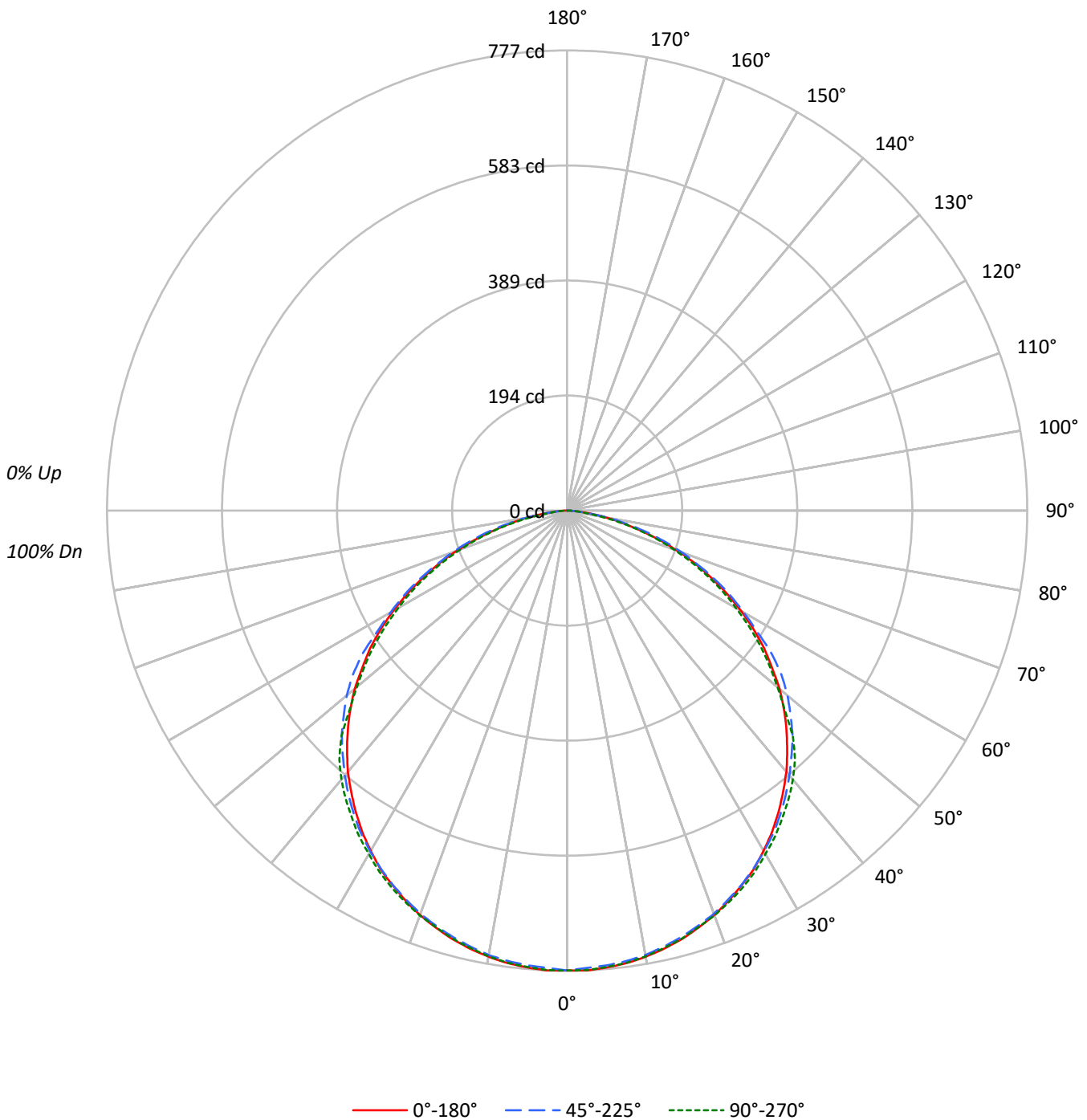
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258921

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P258921

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-5000K

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°	2090	2090	2090
5°	2092	2082	2090
10°	2090	2082	2088
15°	2087	2077	2085
20°	2081	2075	2083
25°	2072	2070	2085
30°	2061	2065	2081
35°	2043	2060	2081
40°	2023	2051	2084
45°	1994	2049	2051
50°	1961	2033	1940
55°	1906	1980	1869
60°	1826	1852	1771
65°	1709	1755	1663
70°	1555	1618	1504
75°	1298	1418	1276
80°	1029	1085	883
85°	667	580	513



TEST NUMBER: P258921

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.3
10°-20°	211.1	9.5
20°-30°	322.3	14.6
30°-40°	392.9	17.7
40°-50°	411.4	18.6
50°-60°	366.0	16.5
60°-70°	270.1	12.2
70°-80°	139.5	6.3
80°-90°	27.1	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°	606.9	27.4
0°-40°	999.9	45.2
0°-60°	1777.3	80.3
0°-90°	2214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	774	774	771	774	774	74
15°	749	748	745	748	748	211
25°	698	698	697	702	702	322
35°	622	623	627	634	634	389
45°	524	528	538	543	539	404
55°	406	415	422	404	398	362
65°	268	287	276	266	261	266
75°	125	138	136	126	123	135
85°	22	24	19	17	17	28
90°	0	0	0	0	0	



TEST NUMBER: P258921

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.5	776.5	776.5	776.5	776.5
2.5°	777.2	776.5	772.9	776.5	776.5
5°	774.3	773.6	770.7	773.6	773.6
7.5°	770.7	770.0	767.1	770.0	770.0
10°	764.9	764.2	762.0	764.9	764.2
12.5°	757.7	757.7	754.1	757.7	756.3
15°	749.0	748.3	745.4	748.3	748.3
17.5°	738.2	737.5	735.3	738.9	737.5
20°	726.7	725.9	724.5	728.1	727.4
22.5°	713.0	713.0	710.8	715.1	715.1
25°	697.8	697.8	697.1	702.1	702.1
27.5°	682.6	681.2	681.2	686.3	687.0
30°	663.2	663.2	664.6	670.4	669.7
32.5°	643.7	644.4	647.3	652.3	653.1
35°	622.0	622.8	627.1	634.3	633.6
37.5°	598.9	601.1	606.2	614.1	614.1
40°	575.8	577.3	583.8	592.4	593.2
42.5°	549.9	553.5	560.7	570.8	569.4
45°	523.9	527.5	538.3	543.4	539.0
47.5°	496.5	500.8	511.6	512.3	497.9
50°	468.3	473.4	485.6	471.2	463.3
52.5°	435.9	445.2	456.1	435.9	430.8
55°	406.3	414.9	422.1	404.1	398.3
57.5°	373.1	384.6	379.6	370.9	363.7
60°	339.2	351.4	344.2	335.6	329.1
62.5°	304.5	318.2	311.0	302.4	296.6
65°	268.4	287.2	275.7	266.3	261.2
67.5°	234.5	252.6	238.9	231.6	226.6
70°	197.7	212.9	205.7	196.3	191.2
72.5°	161.6	173.2	171.0	160.9	157.3
75°	124.8	137.8	136.4	125.6	122.7
77.5°	93.8	106.1	101.7	93.1	89.5
80°	66.4	74.3	70.0	59.9	57.0
82.5°	40.4	46.9	39.7	33.9	31.0
85°	21.6	23.8	18.8	17.3	16.6
87.5°	7.9	7.9	7.9	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)