

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: P259087

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-SQP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2093.0 lumens
Efficiency: N/A
Efficacy: 74.3 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

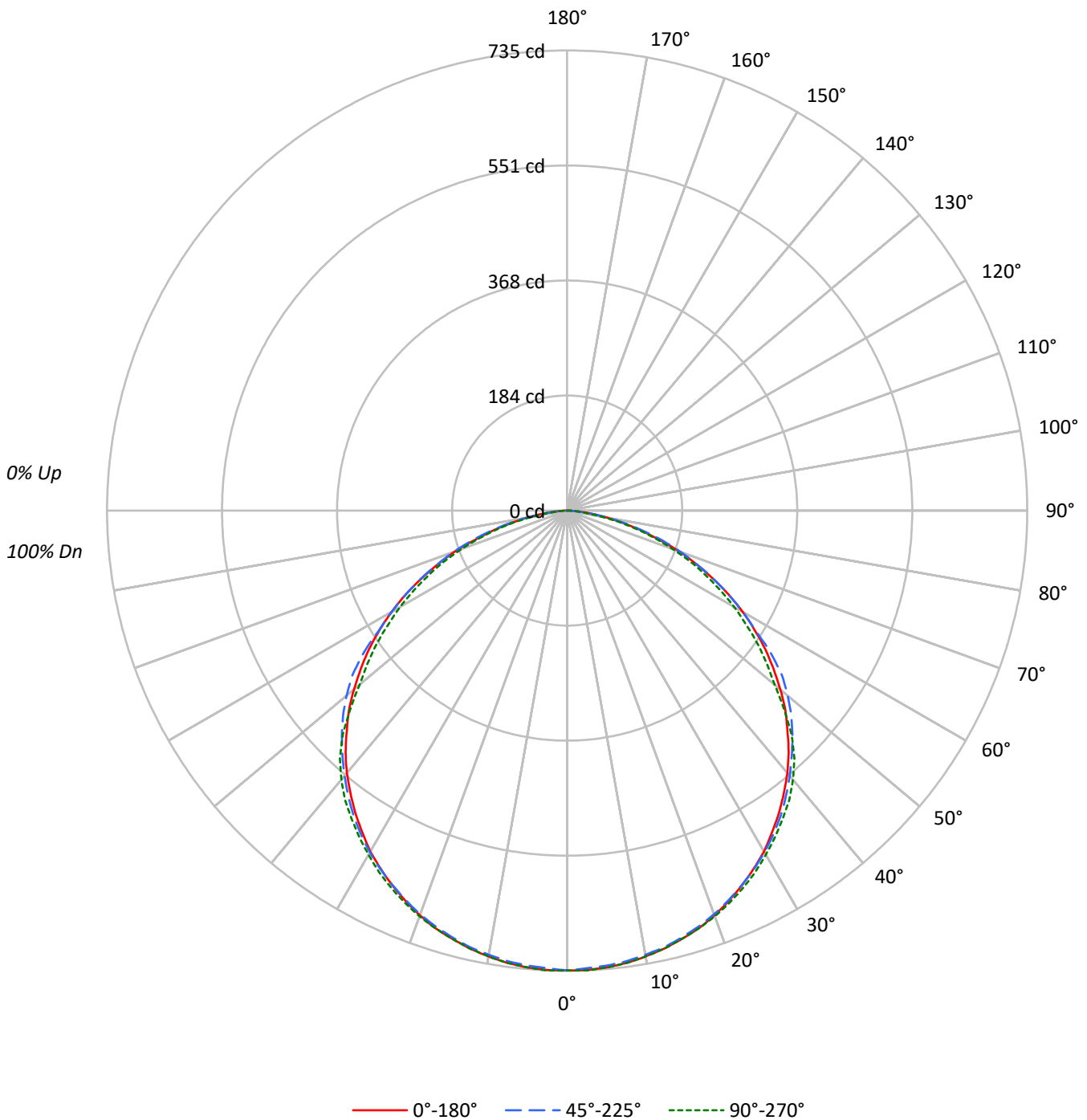
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1977	1977	1977
5°	1978	1971	1978
10°	1976	1968	1976
15°	1973	1967	1973
20°	1969	1965	1975
25°	1962	1960	1974
30°	1954	1959	1972
35°	1938	1954	1973
40°	1923	1943	1970
45°	1894	1937	1929
50°	1861	1926	1811
55°	1813	1866	1743
60°	1744	1740	1660
65°	1634	1643	1553
70°	1500	1517	1406
75°	1260	1319	1202
80°	1000	1021	846
85°	658	568	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.3
10°-20°	199.9	9.6
20°-30°	305.3	14.6
30°-40°	372.4	17.8
40°-50°	389.5	18.6
50°-60°	344.8	16.5
60°-70°	253.9	12.1
70°-80°	131.4	6.3
80°-90°	26.2	1.3
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°	574.7	27.5
0°-40°	947.2	45.3
0°-60°	1681.4	80.3
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	732	732	730	732	732	70
15°	708	708	706	709	708	200
25°	661	661	660	664	665	305
35°	590	591	595	600	600	369
45°	498	502	509	513	507	384
55°	386	394	398	377	372	345
65°	257	272	258	248	244	254
75°	121	130	127	119	116	129
85°	21	23	18	16	16	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.5	734.5	734.5	734.5	734.5
2.5°	734.5	734.5	731.6	734.5	735.2
5°	732.3	732.3	729.5	732.3	732.3
7.5°	728.8	728.1	726.0	728.8	728.8
10°	723.1	723.1	720.3	723.8	723.1
12.5°	716.7	716.0	714.6	717.5	716.7
15°	708.2	708.2	706.1	708.9	708.2
17.5°	699.7	699.0	696.9	699.7	699.7
20°	687.7	687.0	686.3	689.1	689.8
22.5°	674.9	674.2	673.5	677.8	677.8
25°	660.7	660.7	660.0	664.3	665.0
27.5°	645.1	645.1	645.9	651.5	650.8
30°	628.8	628.8	630.3	634.5	634.5
32.5°	609.0	610.4	613.2	618.2	618.2
35°	589.8	591.3	594.8	600.5	600.5
37.5°	568.6	570.7	574.2	581.3	582.8
40°	547.3	548.7	553.0	560.8	560.8
42.5°	523.9	525.3	531.0	538.8	537.4
45°	497.7	501.9	509.0	513.3	506.9
47.5°	472.9	475.7	485.6	480.7	470.0
50°	444.5	450.2	460.1	442.4	432.5
52.5°	415.4	421.8	432.5	407.6	402.0
55°	386.4	394.2	397.7	377.2	371.5
57.5°	355.2	363.7	356.6	344.5	338.9
60°	324.0	333.9	323.3	311.9	308.4
62.5°	291.4	302.7	290.7	280.7	275.8
65°	256.6	272.2	258.1	248.1	243.9
67.5°	222.6	238.9	224.0	215.5	212.7
70°	190.7	199.9	192.8	184.3	178.7
72.5°	152.4	161.6	160.2	151.0	147.5
75°	121.2	129.7	126.9	119.1	115.6
77.5°	90.0	99.3	96.4	87.2	85.8
80°	64.5	70.9	65.9	57.4	54.6
82.5°	40.4	45.4	39.0	32.6	31.2
85°	21.3	22.7	18.4	16.3	15.6
87.5°	7.1	7.8	7.8	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)