

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: P258737

Luminaire Tested: **14CZ-LD5-20-S-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-S-UNV-L93050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2008.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

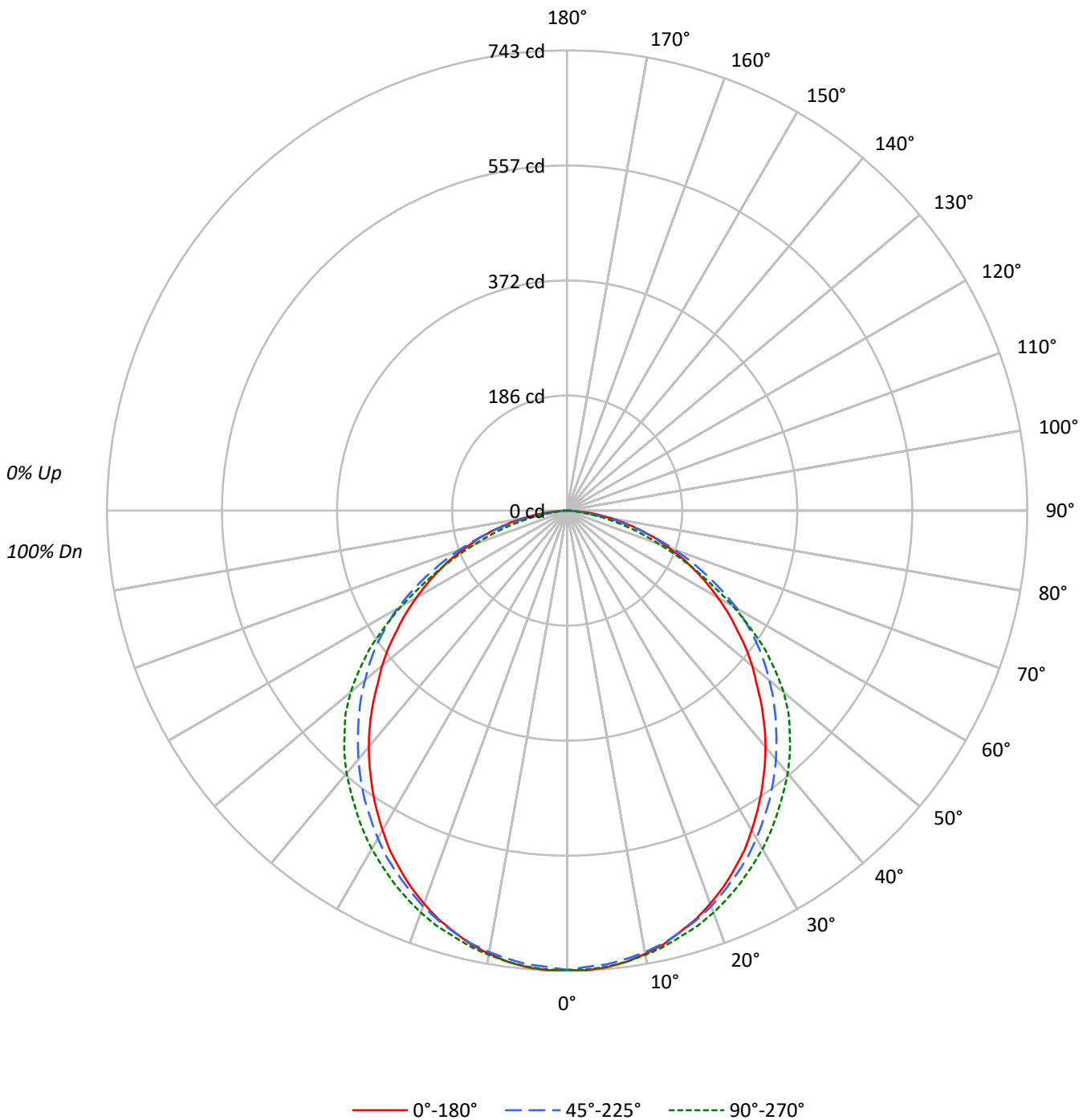
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1996	1996	1996
5°	1999	1987	1996
10°	1985	1978	1990
15°	1962	1964	1982
20°	1934	1947	1978
25°	1897	1923	1969
30°	1852	1899	1960
35°	1802	1872	1949
40°	1751	1842	1946
45°	1689	1811	1934
50°	1633	1783	1910
55°	1570	1755	1826
60°	1512	1704	1666
65°	1447	1595	1465
70°	1366	1450	1239
75°	1275	1256	1023
80°	1124	970	748
85°	883	469	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.5
10°-20°	199.7	9.9
20°-30°	299.6	14.9
30°-40°	357.2	17.8
40°-50°	368.0	18.3
50°-60°	327.9	16.3
60°-70°	236.3	11.8
70°-80°	123.6	6.2
80°-90°	25.6	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°	569.4	28.4
0°-40°	926.6	46.1
0°-60°	1622.6	80.8
0°-90°	2008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	740	738	736	740	739	70
15°	704	705	705	712	711	199
25°	639	642	648	660	663	294
35°	548	556	570	589	593	343
45°	444	454	476	503	508	342
55°	335	345	374	391	389	300
65°	227	235	250	239	230	225
75°	123	129	121	105	98	130
85°	29	25	15	13	13	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.8	741.8	741.8	741.8	741.8
2.5°	742.7	740.9	737.3	741.8	741.8
5°	740.0	738.2	735.5	740.0	739.1
7.5°	734.6	732.8	730.1	735.5	734.6
10°	726.5	725.7	723.9	729.2	728.3
12.5°	717.6	716.7	715.8	721.2	721.2
15°	704.2	705.1	705.1	712.2	711.3
17.5°	691.6	692.5	693.4	702.4	702.4
20°	675.5	676.4	680.0	689.9	690.8
22.5°	658.5	659.4	663.9	675.5	677.3
25°	638.9	642.4	647.8	660.3	663.0
27.5°	619.2	621.9	630.8	645.1	646.9
30°	595.9	601.3	611.1	627.2	630.8
32.5°	572.6	578.9	590.5	608.4	612.9
35°	548.5	555.6	570.0	588.8	593.2
37.5°	523.4	529.7	547.6	567.3	573.5
40°	498.4	504.6	524.3	546.7	553.9
42.5°	471.5	480.5	500.2	525.2	532.4
45°	443.8	453.6	476.0	502.9	508.2
47.5°	415.2	425.9	451.9	478.7	485.0
50°	390.1	400.0	425.9	451.9	456.3
52.5°	363.3	372.2	400.9	422.3	423.2
55°	334.6	345.4	374.0	391.0	389.2
57.5°	308.7	317.6	345.4	354.3	349.0
60°	281.0	289.0	316.7	317.6	309.6
62.5°	254.1	262.2	283.6	277.4	267.5
65°	227.3	235.3	250.5	238.9	230.0
67.5°	201.3	208.5	217.4	202.2	193.3
70°	173.6	183.4	184.3	166.4	157.5
72.5°	149.4	154.8	153.0	136.0	128.0
75°	122.6	128.8	120.8	104.7	98.4
77.5°	97.5	102.0	91.3	76.1	71.6
80°	72.5	75.2	62.6	51.0	48.3
82.5°	49.2	49.2	35.8	27.7	25.1
85°	28.6	25.1	15.2	13.4	13.4
87.5°	9.8	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)