

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: P258538

Luminaire Tested: **14CZ-LD5-20-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-UNV-L83050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213.4 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

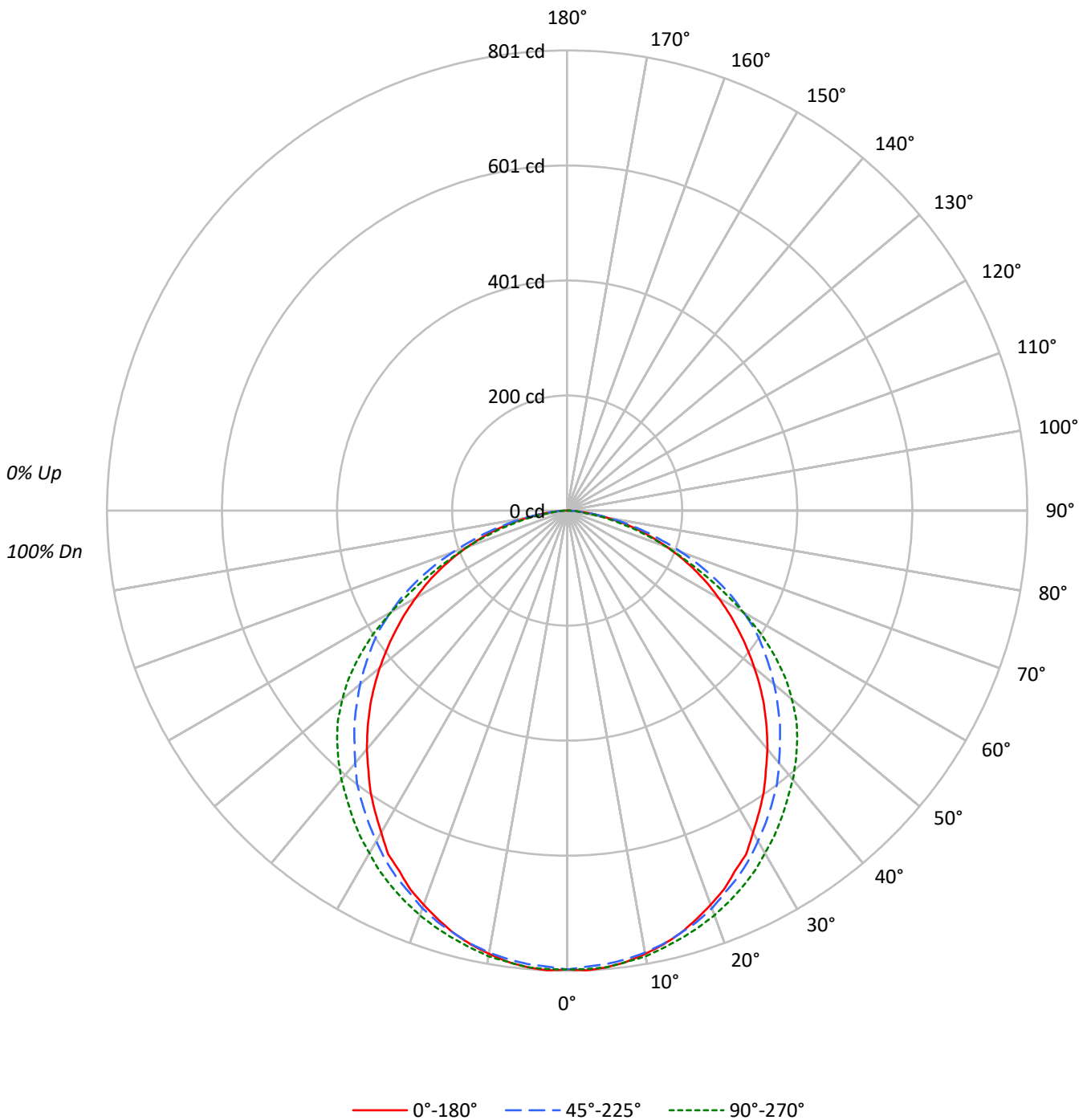
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2150	2150	2150
5°	2155	2140	2155
10°	2141	2135	2153
15°	2122	2122	2146
20°	2090	2109	2147
25°	2054	2090	2145
30°	2011	2065	2139
35°	1961	2043	2140
40°	1905	2016	2147
45°	1848	1993	2155
50°	1782	1969	2138
55°	1710	1950	2068
60°	1638	1908	1903
65°	1563	1827	1668
70°	1451	1666	1442
75°	1316	1452	1192
80°	1049	1150	879
85°	741	639	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.4
10°-20°	215.9	9.8
20°-30°	325.5	14.7
30°-40°	390.2	17.6
40°-50°	404.9	18.3
50°-60°	365.2	16.5
60°-70°	266.4	12.0
70°-80°	139.8	6.3
80°-90°	29.8	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°	617.0	27.9
0°-40°	1007.2	45.5
0°-60°	1777.4	80.3
0°-90°	2213.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	798	796	792	798	798	76
15°	762	762	762	770	770	215
25°	692	695	704	719	722	319
35°	597	603	622	645	651	373
45°	486	495	524	555	566	374
55°	364	378	416	443	441	326
65°	246	260	287	276	262	243
75°	127	144	140	121	115	133
85°	24	30	21	18	16	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.8	798.8	798.8	798.8	798.8
2.5°	800.9	798.8	794.4	798.8	798.8
5°	797.7	795.5	792.2	797.7	797.7
7.5°	792.2	790.0	787.8	793.3	792.2
10°	783.5	782.4	781.3	787.8	787.8
12.5°	773.7	773.7	772.6	780.2	779.1
15°	761.7	761.7	761.7	770.4	770.4
17.5°	746.4	748.6	750.7	760.6	760.6
20°	730.0	732.2	736.6	748.6	749.6
22.5°	713.6	714.7	719.1	733.3	736.6
25°	691.8	695.1	703.8	719.1	722.4
27.5°	674.4	675.4	685.3	702.7	707.1
30°	647.1	654.7	664.5	684.2	688.5
32.5°	622.0	628.5	643.8	664.5	671.1
35°	596.9	603.4	622.0	644.9	651.4
37.5°	568.5	578.3	600.2	623.1	630.7
40°	542.3	551.1	574.0	602.3	611.1
42.5°	514.0	522.7	547.8	579.4	589.2
45°	485.6	495.4	523.8	555.4	566.3
47.5°	456.1	467.0	496.5	531.4	541.2
50°	425.6	437.6	470.3	506.3	510.7
52.5°	395.0	408.1	443.0	474.7	479.0
55°	364.5	377.6	415.7	443.0	440.8
57.5°	335.0	349.2	388.5	402.7	400.5
60°	304.4	319.7	354.6	361.2	353.5
62.5°	276.1	290.3	323.0	317.5	307.7
65°	245.5	259.7	287.0	276.1	261.9
67.5°	215.0	232.4	249.9	231.3	220.4
70°	184.4	204.1	211.7	193.1	183.3
72.5°	154.9	175.7	173.5	154.9	148.4
75°	126.6	144.0	139.7	121.1	114.6
77.5°	96.0	115.7	105.8	90.6	85.1
80°	67.7	85.1	74.2	61.1	56.7
82.5°	44.7	56.7	45.8	36.0	32.7
85°	24.0	29.5	20.7	17.5	16.4
87.5°	9.8	8.7	7.6	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)