

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: P258657

Luminaire Tested: **14CZ-LD5-20-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258657
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-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

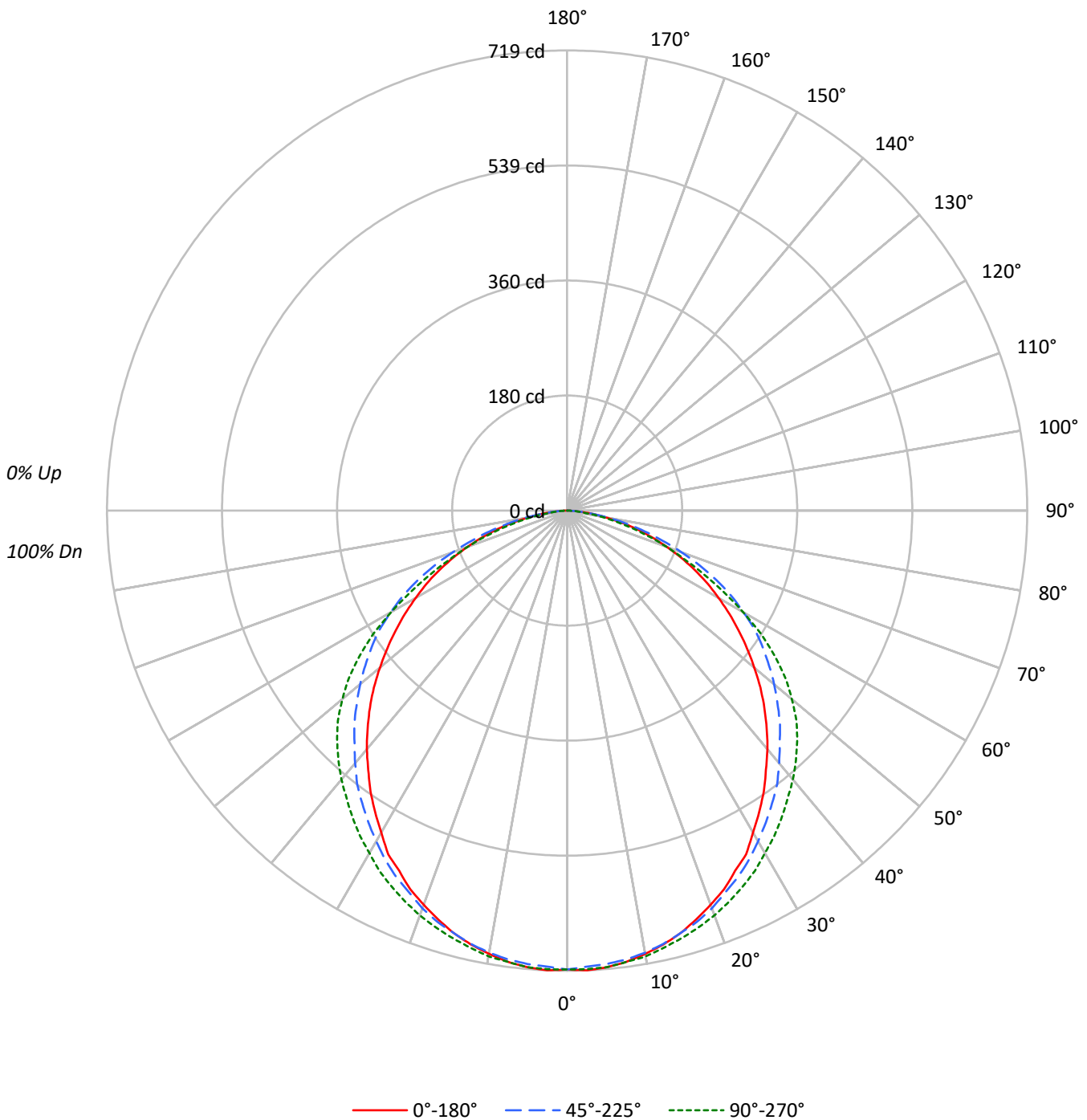
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1930	1930	1930
5°	1934	1921	1934
10°	1922	1917	1933
15°	1905	1905	1927
20°	1877	1893	1927
25°	1844	1876	1926
30°	1805	1854	1921
35°	1760	1834	1921
40°	1710	1810	1927
45°	1659	1789	1935
50°	1599	1768	1919
55°	1535	1751	1857
60°	1471	1714	1708
65°	1403	1640	1497
70°	1302	1495	1295
75°	1181	1304	1070
80°	941	1032	789
85°	667	574	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.4
10°-20°	193.8	9.8
20°-30°	292.2	14.7
30°-40°	350.3	17.6
40°-50°	363.5	18.3
50°-60°	327.9	16.5
60°-70°	239.2	12.0
70°-80°	125.5	6.3
80°-90°	26.8	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°	553.9	27.9
0°-40°	904.2	45.5
0°-60°	1595.6	80.3
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	716	714	711	716	716	68
15°	684	684	684	692	692	193
25°	621	624	632	646	648	287
35°	536	542	558	579	585	335
45°	436	445	470	499	508	336
55°	327	339	373	398	396	293
65°	220	233	258	248	235	218
75°	114	129	125	109	103	119
85°	22	26	19	16	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.1	717.1	717.1	717.1	717.1
2.5°	719.0	717.1	713.1	717.1	717.1
5°	716.1	714.1	711.2	716.1	716.1
7.5°	711.2	709.2	707.3	712.2	711.2
10°	703.3	702.4	701.4	707.3	707.3
12.5°	694.5	694.5	693.5	700.4	699.4
15°	683.7	683.7	683.7	691.6	691.6
17.5°	670.0	672.0	674.0	682.8	682.8
20°	655.3	657.3	661.2	672.0	673.0
22.5°	640.6	641.6	645.5	658.3	661.2
25°	621.1	624.0	631.8	645.5	648.5
27.5°	605.4	606.4	615.2	630.8	634.8
30°	580.9	587.7	596.6	614.2	618.1
32.5°	558.4	564.2	578.0	596.6	602.4
35°	535.8	541.7	558.4	578.9	584.8
37.5°	510.4	519.2	538.8	559.3	566.2
40°	486.9	494.7	515.3	540.7	548.6
42.5°	461.4	469.2	491.7	520.2	529.0
45°	435.9	444.7	470.2	498.6	508.4
47.5°	409.5	419.3	445.7	477.1	485.9
50°	382.0	392.8	422.2	454.5	458.4
52.5°	354.6	366.4	397.7	426.1	430.0
55°	327.2	338.9	373.2	397.7	395.8
57.5°	300.7	313.5	348.7	361.5	359.5
60°	273.3	287.0	318.4	324.2	317.4
62.5°	247.8	260.6	290.0	285.1	276.2
65°	220.4	233.1	257.6	247.8	235.1
67.5°	193.0	208.7	224.3	207.7	197.9
70°	165.5	183.2	190.0	173.4	164.6
72.5°	139.1	157.7	155.8	139.1	133.2
75°	113.6	129.3	125.4	108.7	102.9
77.5°	86.2	103.8	95.0	81.3	76.4
80°	60.7	76.4	66.6	54.9	50.9
82.5°	40.2	50.9	41.1	32.3	29.4
85°	21.6	26.4	18.6	15.7	14.7
87.5°	8.8	7.8	6.9	6.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)