

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: P258655

Luminaire Tested: **14CZ-LD5-20-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258655
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1949.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

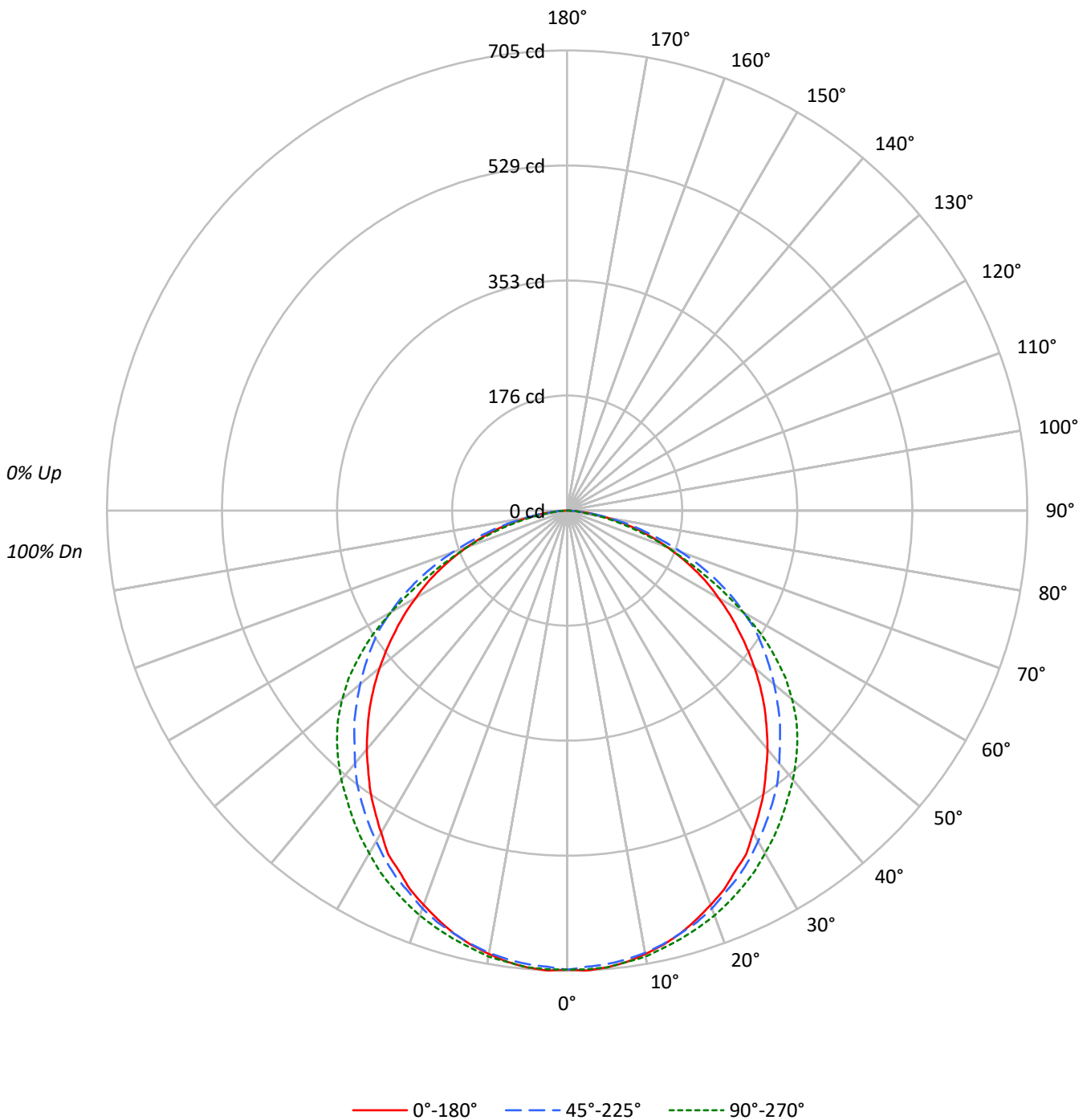
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1893	1893	1893
5°	1897	1884	1897
10°	1885	1880	1896
15°	1869	1869	1890
20°	1841	1857	1890
25°	1809	1840	1889
30°	1771	1818	1884
35°	1727	1799	1884
40°	1677	1775	1890
45°	1627	1755	1898
50°	1569	1734	1883
55°	1506	1718	1821
60°	1443	1681	1675
65°	1377	1609	1468
70°	1278	1467	1270
75°	1159	1279	1049
80°	924	1012	775
85°	651	565	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.4
10°-20°	190.1	9.8
20°-30°	286.6	14.7
30°-40°	343.6	17.6
40°-50°	356.6	18.3
50°-60°	321.6	16.5
60°-70°	234.6	12.0
70°-80°	123.1	6.3
80°-90°	26.3	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°	543.3	27.9
0°-40°	886.9	45.5
0°-60°	1565.1	80.3
0°-90°	1949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	702	700	698	702	702	67
15°	671	671	671	678	678	189
25°	609	612	620	633	636	281
35°	526	531	548	568	574	328
45°	428	436	461	489	499	330
55°	321	332	366	390	388	287
65°	216	229	253	243	231	214
75°	112	127	123	107	101	117
85°	21	26	18	15	14	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.3	703.3	703.3	703.3	703.3
2.5°	705.3	703.3	699.5	703.3	703.3
5°	702.4	700.5	697.6	702.4	702.4
7.5°	697.6	695.7	693.7	698.5	697.6
10°	689.9	688.9	688.0	693.7	693.7
12.5°	681.2	681.2	680.3	687.0	686.0
15°	670.7	670.7	670.7	678.4	678.4
17.5°	657.2	659.1	661.1	669.7	669.7
20°	642.8	644.7	648.6	659.1	660.1
22.5°	628.4	629.4	633.2	645.7	648.6
25°	609.2	612.1	619.7	633.2	636.1
27.5°	593.8	594.8	603.4	618.8	622.6
30°	569.8	576.5	585.2	602.5	606.3
32.5°	547.7	553.4	566.9	585.2	590.9
35°	525.6	531.3	547.7	567.9	573.6
37.5°	500.6	509.2	528.5	548.6	555.4
40°	477.5	485.2	505.4	530.4	538.1
42.5°	452.6	460.2	482.3	510.2	518.9
45°	427.6	436.2	461.2	489.1	498.7
47.5°	401.6	411.2	437.2	467.9	476.6
50°	374.7	385.3	414.1	445.8	449.7
52.5°	347.8	359.4	390.1	418.0	421.8
55°	320.9	332.5	366.1	390.1	388.2
57.5°	295.0	307.5	342.1	354.6	352.6
60°	268.1	281.5	312.3	318.0	311.3
62.5°	243.1	255.6	284.4	279.6	271.0
65°	216.2	228.7	252.7	243.1	230.6
67.5°	189.3	204.7	220.0	203.7	194.1
70°	162.4	179.7	186.4	170.1	161.4
72.5°	136.4	154.7	152.8	136.4	130.7
75°	111.5	126.8	123.0	106.7	100.9
77.5°	84.6	101.8	93.2	79.8	74.9
80°	59.6	74.9	65.3	53.8	50.0
82.5°	39.4	50.0	40.4	31.7	28.8
85°	21.1	25.9	18.3	15.4	14.4
87.5°	8.6	7.7	6.7	6.7	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)