

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: P259015

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2029.0 lumens
Efficiency: N/A
Efficacy: 73.7 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

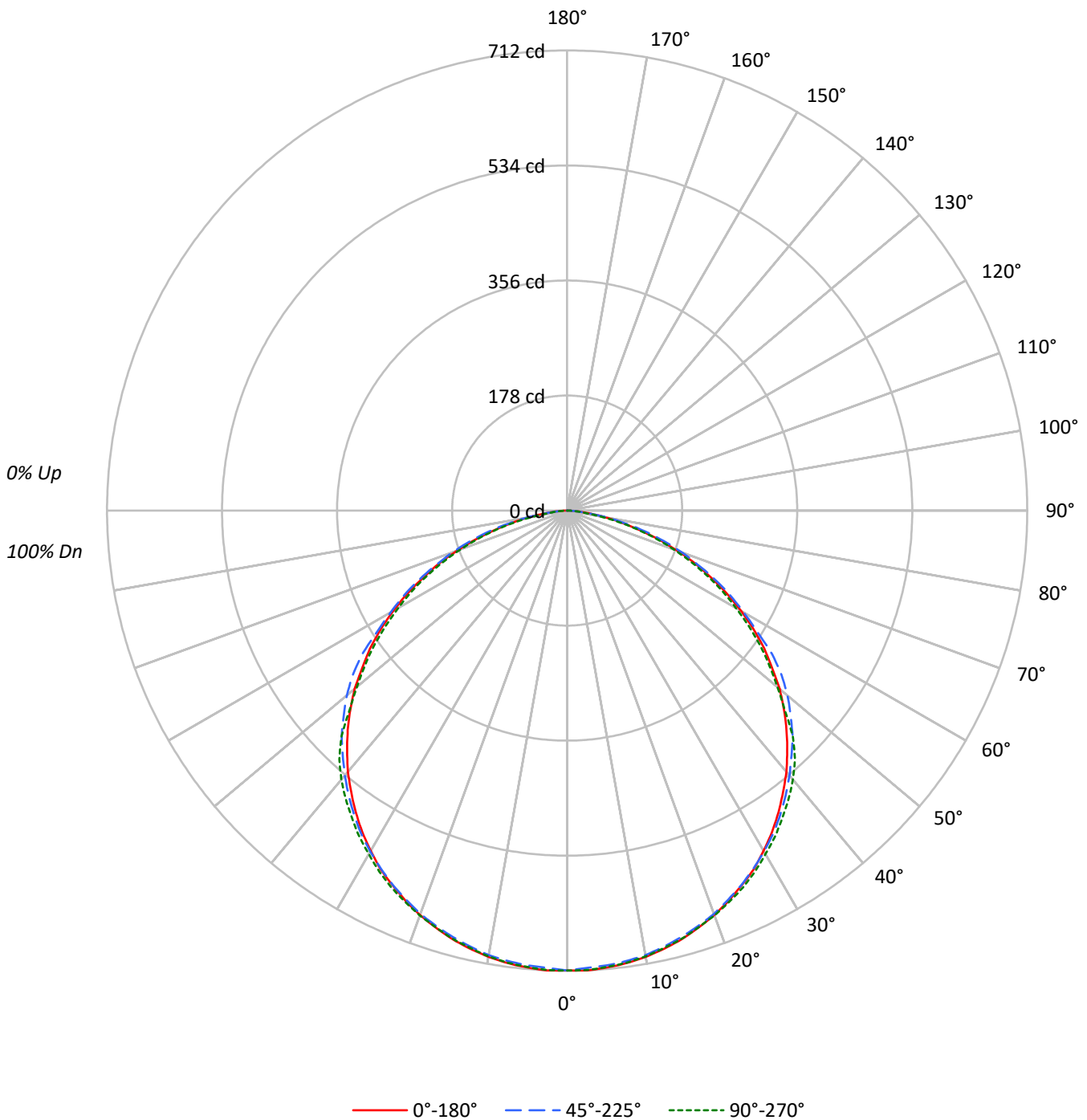
Input Watts (W): 27.528
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1915	1915	1915
5°	1917	1908	1915
10°	1915	1908	1914
15°	1912	1903	1911
20°	1907	1901	1909
25°	1899	1897	1911
30°	1889	1893	1907
35°	1873	1888	1907
40°	1854	1879	1910
45°	1827	1877	1880
50°	1797	1863	1778
55°	1747	1815	1712
60°	1673	1697	1623
65°	1566	1608	1524
70°	1426	1483	1378
75°	1189	1300	1169
80°	942	993	809
85°	611	531	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.3
10°-20°	193.5	9.5
20°-30°	295.4	14.6
30°-40°	360.1	17.7
40°-50°	377.0	18.6
50°-60°	335.4	16.5
60°-70°	247.5	12.2
70°-80°	127.9	6.3
80°-90°	24.8	1.2
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°	556.2	27.4
0°-40°	916.3	45.2
0°-60°	1628.8	80.3
0°-90°	2029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	709	706	709	709	67
15°	686	686	683	686	686	194
25°	640	640	639	644	644	295
35°	570	571	575	581	581	357
45°	480	483	493	498	494	370
55°	372	380	387	370	365	332
65°	246	263	253	244	239	244
75°	114	126	125	115	112	124
85°	20	22	17	16	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.6	711.6	711.6	711.6	711.6
2.5°	712.2	711.6	708.3	711.6	711.6
5°	709.6	708.9	706.3	708.9	708.9
7.5°	706.3	705.6	703.0	705.6	705.6
10°	701.0	700.3	698.4	701.0	700.3
12.5°	694.4	694.4	691.1	694.4	693.1
15°	686.4	685.8	683.1	685.8	685.8
17.5°	676.5	675.9	673.9	677.2	675.9
20°	665.9	665.3	664.0	667.3	666.6
22.5°	653.4	653.4	651.4	655.4	655.4
25°	639.5	639.5	638.8	643.5	643.5
27.5°	625.6	624.3	624.3	628.9	629.6
30°	607.8	607.8	609.1	614.4	613.7
32.5°	589.9	590.6	593.2	597.8	598.5
35°	570.1	570.7	574.7	581.3	580.6
37.5°	548.9	550.9	555.5	562.8	562.8
40°	527.7	529.1	535.0	542.9	543.6
42.5°	503.9	507.2	513.8	523.1	521.8
45°	480.1	483.4	493.3	498.0	494.0
47.5°	455.0	459.0	468.9	469.5	456.3
50°	429.2	433.8	445.1	431.8	424.6
52.5°	399.4	408.0	418.0	399.4	394.8
55°	372.3	380.3	386.9	370.3	365.0
57.5°	341.9	352.5	347.9	339.9	333.3
60°	310.8	322.1	315.4	307.5	301.6
62.5°	279.1	291.6	285.0	277.1	271.8
65°	246.0	263.2	252.6	244.0	239.4
67.5°	214.9	231.5	218.9	212.3	207.7
70°	181.2	195.1	188.5	179.9	175.2
72.5°	148.1	158.7	156.7	147.5	144.2
75°	114.4	126.3	125.0	115.1	112.4
77.5°	86.0	97.2	93.2	85.3	82.0
80°	60.8	68.1	64.1	54.9	52.2
82.5°	37.0	43.0	36.4	31.1	28.4
85°	19.8	21.8	17.2	15.9	15.2
87.5°	7.3	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)