

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: P275872

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2109.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

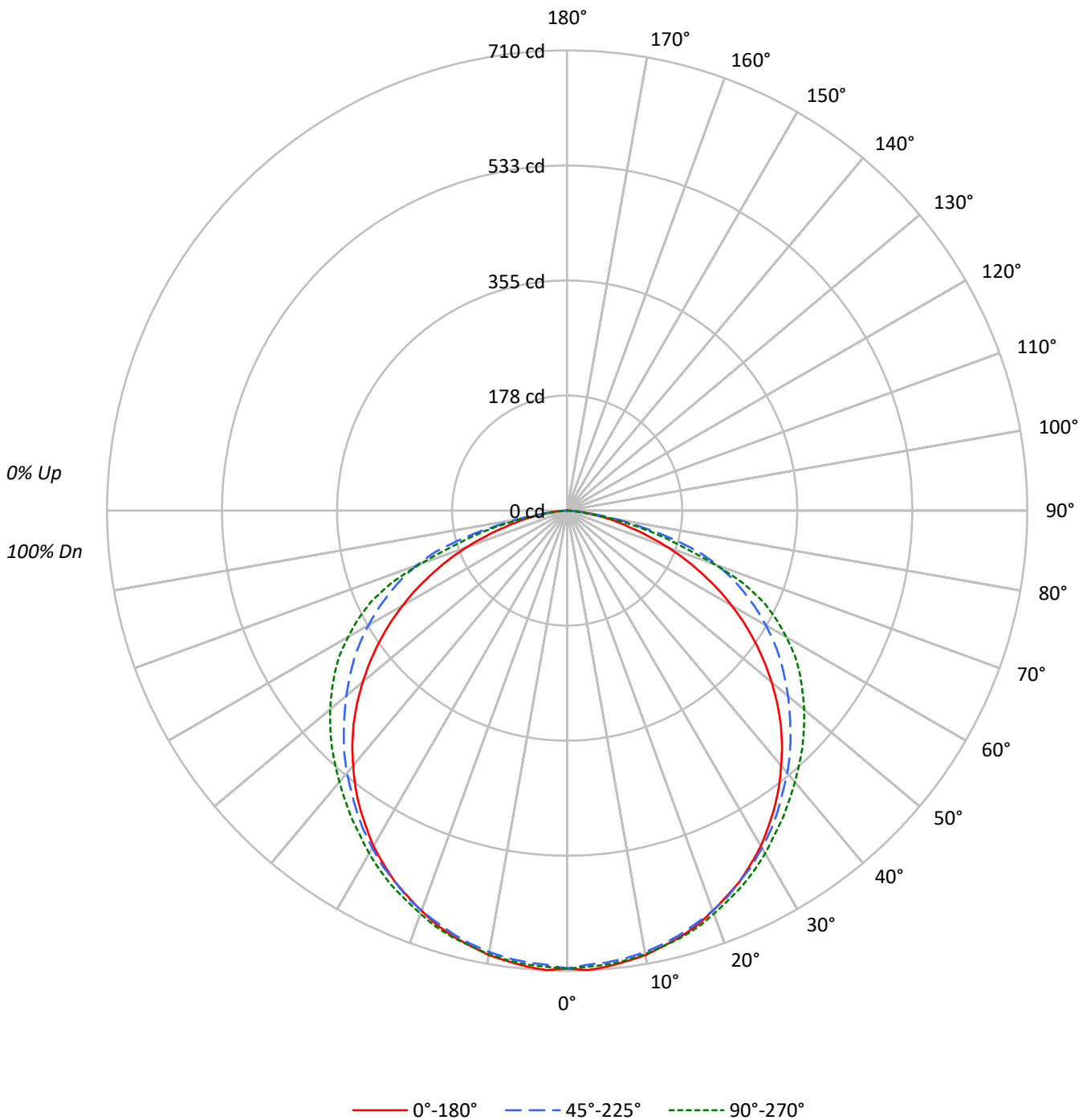
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1901	1901	1901
5°	1908	1890	1899
10°	1903	1890	1899
15°	1894	1885	1899
20°	1881	1881	1895
25°	1872	1872	1897
30°	1857	1867	1898
35°	1834	1861	1904
40°	1805	1857	1920
45°	1773	1855	1955
50°	1723	1861	1999
55°	1661	1885	2055
60°	1577	1905	2100
65°	1457	1929	2128
70°	1296	1943	1904
75°	1044	1746	1523
80°	817	1224	995
85°	559	355	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.2
10°-20°	191.8	9.1
20°-30°	292.1	13.8
30°-40°	355.7	16.9
40°-50°	377.4	17.9
50°-60°	356.2	16.9
60°-70°	287.6	13.6
70°-80°	156.0	7.4
80°-90°	25.2	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°	550.8	26.1
0°-40°	906.5	43.0
0°-60°	1640.1	77.8
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	706	705	700	705	703	67
15°	680	678	677	682	682	192
25°	631	629	631	637	639	290
35°	558	562	566	578	580	349
45°	466	473	487	506	514	359
55°	354	369	402	428	438	316
65°	229	257	303	328	334	227
75°	100	146	168	152	146	110
85°	18	20	12	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.4	706.4	706.4	706.4	706.4
2.5°	709.7	706.4	701.4	706.4	704.7
5°	706.4	704.7	699.8	704.7	703.1
7.5°	701.4	701.4	696.5	699.8	699.8
10°	696.5	694.8	691.5	696.5	694.8
12.5°	688.2	686.6	685.0	689.9	688.2
15°	680.0	678.4	676.7	681.7	681.7
17.5°	670.1	668.5	666.8	673.4	673.4
20°	657.0	657.0	657.0	663.5	661.9
22.5°	643.8	643.8	645.4	652.0	650.4
25°	630.6	629.0	630.6	637.2	638.9
27.5°	614.2	615.8	617.4	624.0	625.7
30°	597.7	599.3	601.0	609.2	610.9
32.5°	577.9	581.2	584.5	594.4	594.4
35°	558.2	561.5	566.4	577.9	579.6
37.5°	536.8	540.1	546.6	559.8	563.1
40°	513.7	518.7	528.5	541.7	546.6
42.5°	490.7	497.2	508.8	523.6	530.2
45°	466.0	472.6	487.4	505.5	513.7
47.5°	439.6	447.9	466.0	489.0	495.6
50°	411.6	423.2	444.6	469.3	477.5
52.5°	383.6	396.8	423.2	449.5	457.7
55°	354.0	368.8	401.8	428.1	438.0
57.5°	324.4	340.8	378.7	406.7	416.6
60°	293.1	312.8	354.0	382.0	390.2
62.5°	261.8	284.8	329.3	357.3	363.9
65°	228.9	256.9	303.0	327.7	334.2
67.5°	197.6	230.5	276.6	294.7	294.7
70°	164.7	200.9	247.0	251.9	242.0
72.5°	131.7	172.9	214.0	195.9	187.7
75°	100.4	146.5	167.9	151.5	146.5
77.5°	75.7	118.5	118.5	108.7	105.4
80°	52.7	90.6	79.0	69.2	64.2
82.5°	34.6	51.0	41.2	32.9	28.0
85°	18.1	19.8	11.5	9.9	8.2
87.5°	6.6	3.3	1.6	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)