

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: P275818

Luminaire Tested: **14CZ2-35-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275818
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2332.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

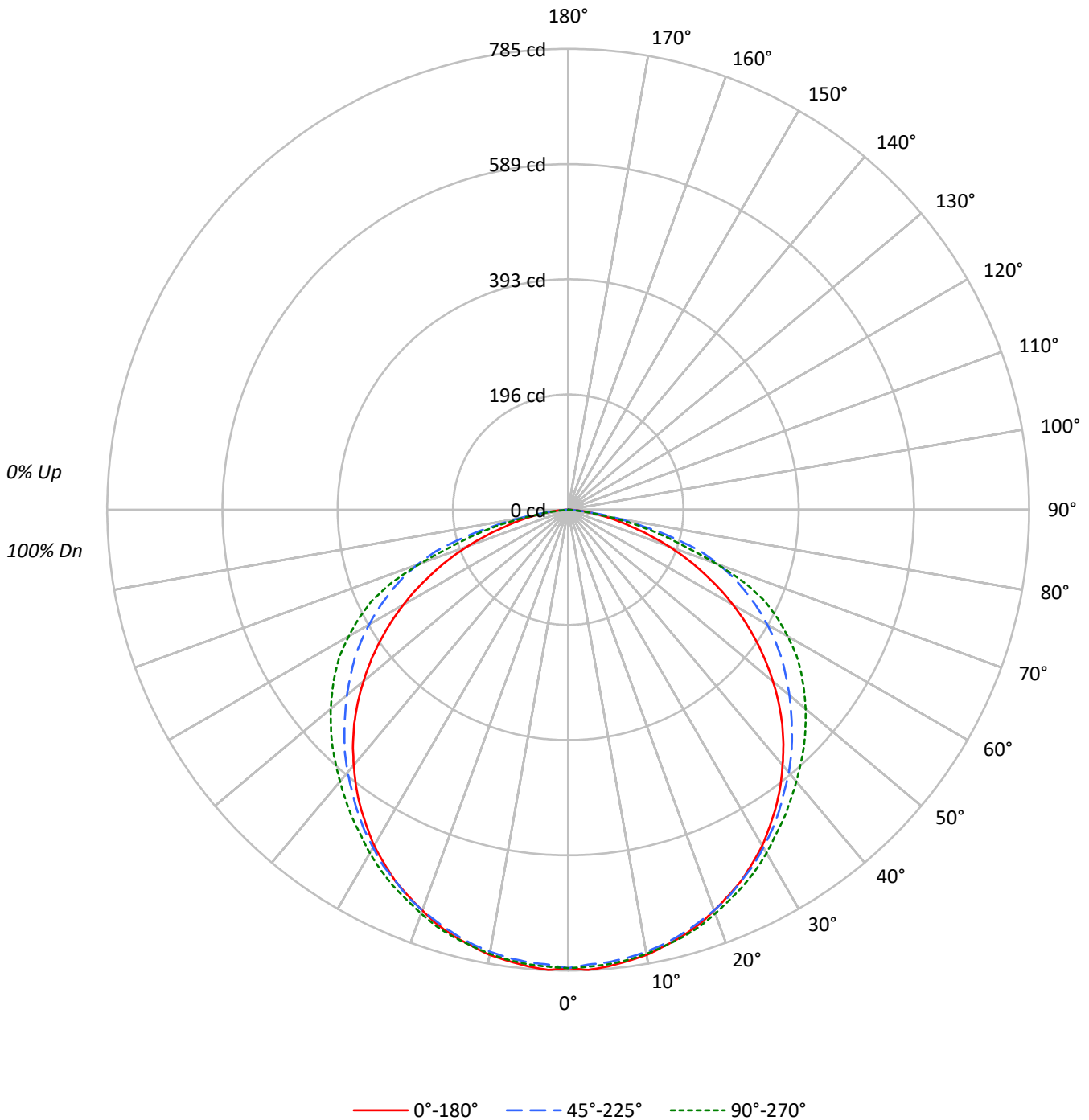
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2102	2102	2102
5°	2110	2090	2100
10°	2104	2090	2099
15°	2095	2085	2100
20°	2080	2080	2096
25°	2070	2070	2097
30°	2054	2065	2099
35°	2028	2057	2105
40°	1995	2053	2123
45°	1961	2051	2162
50°	1906	2058	2210
55°	1836	2084	2272
60°	1744	2106	2322
65°	1612	2133	2353
70°	1433	2149	2105
75°	1155	1931	1684
80°	903	1354	1100
85°	618	392	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.2
10°-20°	212.1	9.1
20°-30°	323.0	13.8
30°-40°	393.4	16.9
40°-50°	417.3	17.9
50°-60°	393.9	16.9
60°-70°	318.0	13.6
70°-80°	172.5	7.4
80°-90°	27.9	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°	609.0	26.1
0°-40°	1002.3	43.0
0°-60°	1813.5	77.8
0°-90°	2332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	781	779	774	779	777	74
15°	752	750	748	754	754	212
25°	697	696	697	705	706	321
35°	617	621	626	639	641	386
45°	515	522	539	559	568	397
55°	391	408	444	473	484	350
65°	253	284	335	362	370	251
75°	111	162	186	168	162	121
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.0	781.0	781.0	781.0	781.0
2.5°	784.7	781.0	775.6	781.0	779.2
5°	781.0	779.2	773.8	779.2	777.4
7.5°	775.6	775.6	770.1	773.8	773.8
10°	770.1	768.3	764.7	770.1	768.3
12.5°	761.0	759.2	757.4	762.8	761.0
15°	751.9	750.1	748.3	753.7	753.7
17.5°	741.0	739.2	737.4	744.6	744.6
20°	726.4	726.4	726.4	733.7	731.9
22.5°	711.9	711.9	713.7	721.0	719.1
25°	697.3	695.5	697.3	704.6	706.4
27.5°	679.1	680.9	682.7	690.0	691.8
30°	660.9	662.7	664.5	673.6	675.5
32.5°	639.0	642.7	646.3	657.2	657.2
35°	617.2	620.8	626.3	639.0	640.9
37.5°	593.5	597.2	604.4	619.0	622.7
40°	568.0	573.5	584.4	599.0	604.4
42.5°	542.5	549.8	562.6	579.0	586.2
45°	515.2	522.5	538.9	558.9	568.0
47.5°	486.1	495.2	515.2	540.7	548.0
50°	455.2	467.9	491.6	518.9	528.0
52.5°	424.2	438.8	467.9	497.0	506.1
55°	391.4	407.8	444.2	473.4	484.3
57.5°	358.7	376.9	418.7	449.7	460.6
60°	324.1	345.9	391.4	422.4	431.5
62.5°	289.5	315.0	364.1	395.1	402.4
65°	253.1	284.0	335.0	362.3	369.6
67.5°	218.5	254.9	305.9	325.9	325.9
70°	182.1	222.1	273.1	278.6	267.6
72.5°	145.6	191.2	236.7	216.7	207.6
75°	111.1	162.0	185.7	167.5	162.0
77.5°	83.7	131.1	131.1	120.2	116.5
80°	58.3	100.1	87.4	76.5	71.0
82.5°	38.2	56.4	45.5	36.4	31.0
85°	20.0	21.8	12.7	10.9	9.1
87.5°	7.3	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)