

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: P275817

Luminaire Tested: **14CZ2-35-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275817
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2326.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

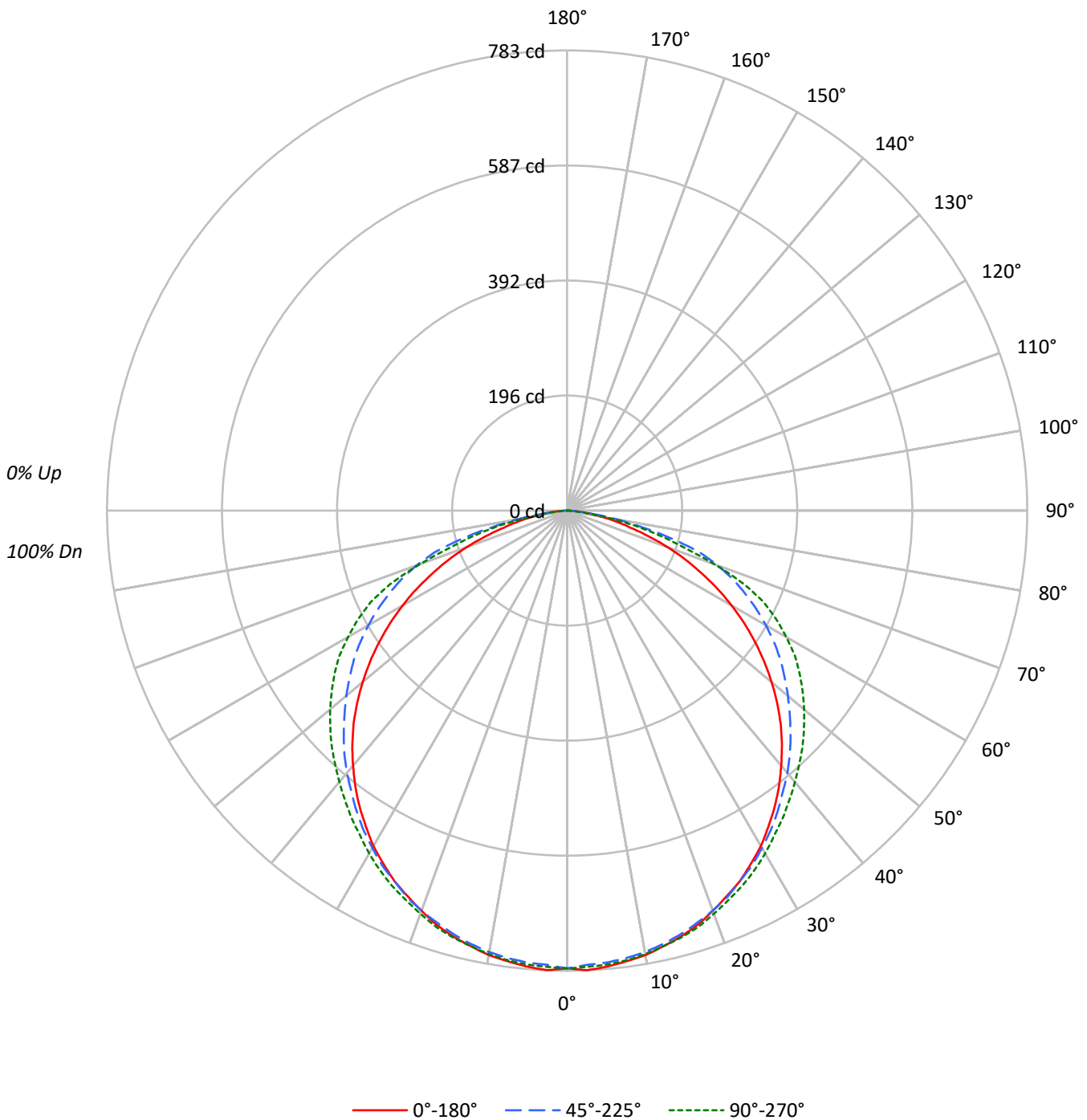
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2096	2096	2096
5°	2104	2085	2095
10°	2099	2084	2094
15°	2089	2079	2094
20°	2075	2075	2090
25°	2065	2065	2092
30°	2048	2060	2093
35°	2022	2052	2100
40°	1990	2048	2118
45°	1956	2046	2156
50°	1901	2053	2205
55°	1832	2079	2266
60°	1739	2101	2316
65°	1607	2127	2347
70°	1429	2143	2100
75°	1152	1926	1680
80°	900	1351	1097
85°	618	392	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.2
10°-20°	211.6	9.1
20°-30°	322.1	13.8
30°-40°	392.4	16.9
40°-50°	416.3	17.9
50°-60°	392.9	16.9
60°-70°	317.2	13.6
70°-80°	172.1	7.4
80°-90°	27.8	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°	607.4	26.1
0°-40°	999.8	43.0
0°-60°	1808.9	77.8
0°-90°	2326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	779	777	772	777	775	74
15°	750	748	746	752	752	212
25°	696	694	696	703	705	320
35°	616	619	625	637	639	385
45°	514	521	538	558	567	396
55°	390	407	443	472	483	349
65°	252	283	334	361	369	250
75°	111	162	185	167	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°	779.0	779.0	779.0	779.0	779.0
2.5°	782.7	779.0	773.6	779.0	777.2
5°	779.0	777.2	771.8	777.2	775.4
7.5°	773.6	773.6	768.1	771.8	771.8
10°	768.1	766.3	762.7	768.1	766.3
12.5°	759.1	757.2	755.4	760.9	759.1
15°	750.0	748.2	746.3	751.8	751.8
17.5°	739.1	737.3	735.5	742.7	742.7
20°	724.6	724.6	724.6	731.8	730.0
22.5°	710.0	710.0	711.8	719.1	717.3
25°	695.5	693.7	695.5	702.8	704.6
27.5°	677.3	679.2	681.0	688.2	690.1
30°	659.2	661.0	662.8	671.9	673.7
32.5°	637.4	641.0	644.7	655.6	655.6
35°	615.6	619.2	624.7	637.4	639.2
37.5°	592.0	595.6	602.9	617.4	621.1
40°	566.6	572.0	582.9	597.4	602.9
42.5°	541.1	548.4	561.1	577.5	584.7
45°	513.9	521.2	537.5	557.5	566.6
47.5°	484.9	493.9	513.9	539.3	546.6
50°	454.0	466.7	490.3	517.5	526.6
52.5°	423.1	437.6	466.7	495.8	504.8
55°	390.4	406.8	443.1	472.1	483.0
57.5°	357.7	375.9	417.7	448.5	459.4
60°	323.2	345.0	390.4	421.3	430.4
62.5°	288.7	314.2	363.2	394.1	401.3
65°	252.4	283.3	334.1	361.4	368.6
67.5°	217.9	254.2	305.1	325.1	325.1
70°	181.6	221.5	272.4	277.8	266.9
72.5°	145.3	190.7	236.1	216.1	207.0
75°	110.8	161.6	185.2	167.1	161.6
77.5°	83.5	130.7	130.7	119.9	116.2
80°	58.1	99.9	87.2	76.3	70.8
82.5°	38.1	56.3	45.4	36.3	30.9
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)