

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: P275821

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275821
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: 14CZ2-39-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2331.0 lumens
Efficiency: N/A
Efficacy: 75.7 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

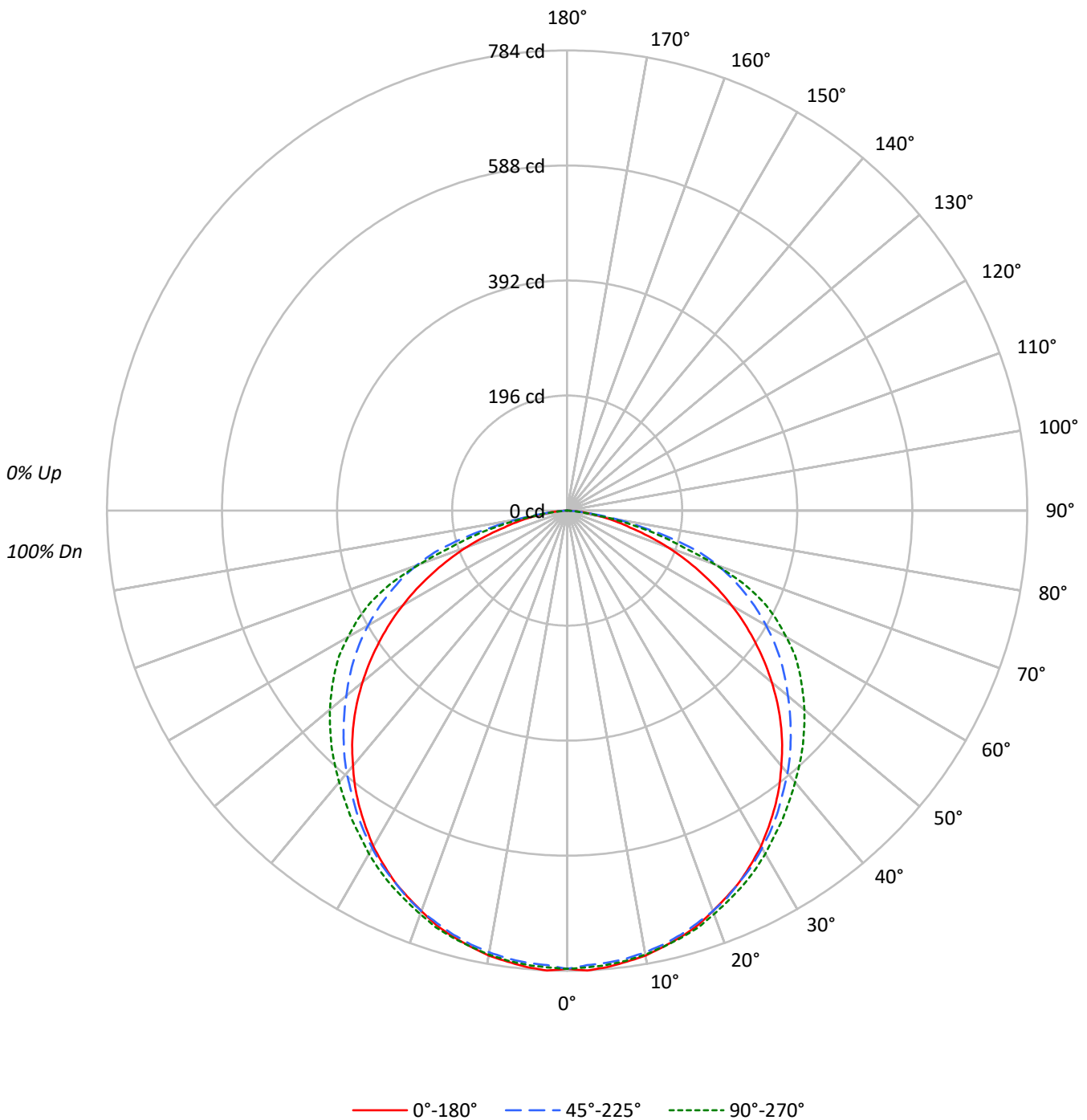
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2101	2101	2101
5°	2109	2089	2099
10°	2103	2088	2099
15°	2094	2084	2099
20°	2079	2079	2095
25°	2070	2070	2097
30°	2053	2064	2098
35°	2027	2056	2104
40°	1995	2052	2122
45°	1960	2050	2161
50°	1905	2057	2210
55°	1836	2083	2271
60°	1743	2106	2321
65°	1611	2132	2352
70°	1432	2148	2105
75°	1154	1930	1684
80°	902	1354	1100
85°	618	392	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.2
10°-20°	212.0	9.1
20°-30°	322.8	13.8
30°-40°	393.2	16.9
40°-50°	417.2	17.9
50°-60°	393.7	16.9
60°-70°	317.9	13.6
70°-80°	172.4	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°	608.7	26.1
0°-40°	1001.9	43.0
0°-60°	1812.8	77.8
0°-90°	2331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	781	779	773	779	777	74
15°	752	750	748	753	753	212
25°	697	695	697	704	706	321
35°	617	621	626	639	641	386
45°	515	522	539	559	568	397
55°	391	408	444	473	484	349
65°	253	284	335	362	369	251
75°	111	162	186	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°	780.7	780.7	780.7	780.7	780.7
2.5°	784.4	780.7	775.3	780.7	778.9
5°	780.7	778.9	773.4	778.9	777.1
7.5°	775.3	775.3	769.8	773.4	773.4
10°	769.8	768.0	764.3	769.8	768.0
12.5°	760.7	758.9	757.1	762.5	760.7
15°	751.6	749.8	748.0	753.4	753.4
17.5°	740.7	738.9	737.0	744.3	744.3
20°	726.1	726.1	726.1	733.4	731.6
22.5°	711.6	711.6	713.4	720.7	718.8
25°	697.0	695.2	697.0	704.3	706.1
27.5°	678.8	680.6	682.4	689.7	691.5
30°	660.6	662.4	664.2	673.3	675.2
32.5°	638.8	642.4	646.0	657.0	657.0
35°	616.9	620.6	626.0	638.8	640.6
37.5°	593.3	596.9	604.2	618.7	622.4
40°	567.8	573.2	584.2	598.7	604.2
42.5°	542.3	549.6	562.3	578.7	586.0
45°	515.0	522.3	538.7	558.7	567.8
47.5°	485.9	495.0	515.0	540.5	547.8
50°	455.0	467.7	491.4	518.7	527.8
52.5°	424.0	438.6	467.7	496.8	505.9
55°	391.3	407.6	444.0	473.2	484.1
57.5°	358.5	376.7	418.6	449.5	460.4
60°	323.9	345.8	391.3	422.2	431.3
62.5°	289.4	314.8	364.0	394.9	402.2
65°	253.0	283.9	334.9	362.1	369.4
67.5°	218.4	254.8	305.7	325.8	325.8
70°	182.0	222.0	273.0	278.4	267.5
72.5°	145.6	191.1	236.6	216.6	207.5
75°	111.0	162.0	185.6	167.4	162.0
77.5°	83.7	131.0	131.0	120.1	116.5
80°	58.2	100.1	87.4	76.4	71.0
82.5°	38.2	56.4	45.5	36.4	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)