

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: P275777

Luminaire Tested: **14CZ2-39-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275777
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-L93050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2306.0 lumens
Efficiency: N/A
Efficacy: 71.5 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

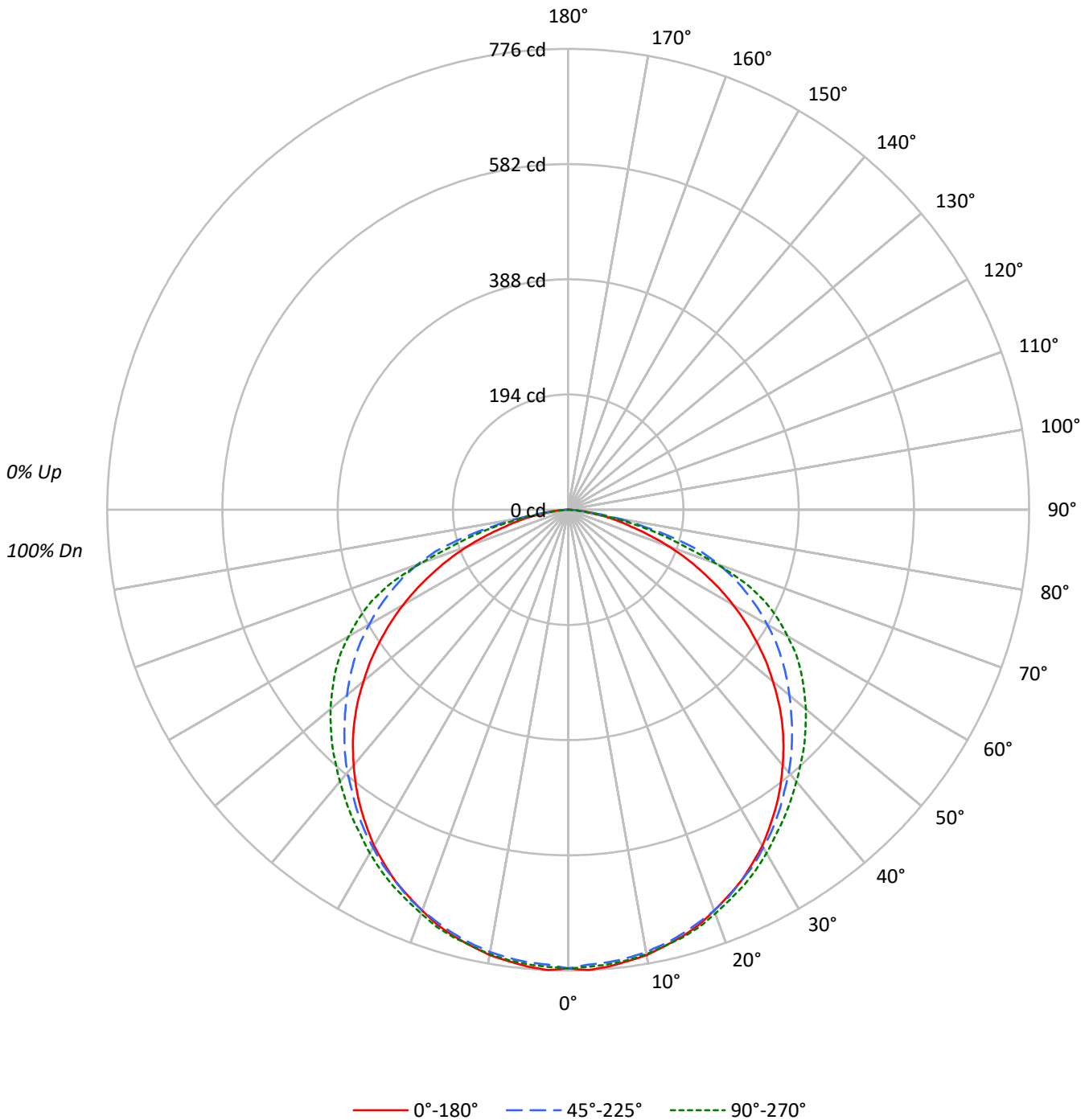
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2078	2078	2078
5°	2086	2067	2076
10°	2081	2066	2076
15°	2071	2061	2076
20°	2057	2057	2072
25°	2047	2047	2074
30°	2031	2042	2075
35°	2005	2034	2082
40°	1973	2030	2100
45°	1939	2028	2138
50°	1884	2035	2186
55°	1816	2061	2247
60°	1725	2083	2296
65°	1593	2110	2327
70°	1416	2124	2082
75°	1142	1909	1666
80°	893	1339	1088
85°	611	389	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.2
10°-20°	209.7	9.1
20°-30°	319.3	13.8
30°-40°	389.0	16.9
40°-50°	412.7	17.9
50°-60°	389.5	16.9
60°-70°	314.5	13.6
70°-80°	170.6	7.4
80°-90°	27.6	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°	602.2	26.1
0°-40°	991.1	43.0
0°-60°	1793.3	77.8
0°-90°	2306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	770	769	73
15°	744	742	740	745	745	210
25°	690	688	690	697	698	317
35°	610	614	619	632	634	382
45°	510	517	533	553	562	392
55°	387	403	439	468	479	346
65°	250	281	331	358	366	248
75°	110	160	184	166	160	120
85°	20	22	13	11	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.3	772.3	772.3	772.3	772.3
2.5°	775.9	772.3	766.9	772.3	770.5
5°	772.3	770.5	765.1	770.5	768.7
7.5°	766.9	766.9	761.5	765.1	765.1
10°	761.5	759.7	756.1	761.5	759.7
12.5°	752.5	750.7	748.9	754.3	752.5
15°	743.5	741.7	739.9	745.3	745.3
17.5°	732.7	730.9	729.1	736.3	736.3
20°	718.3	718.3	718.3	725.5	723.7
22.5°	703.9	703.9	705.7	712.9	711.1
25°	689.5	687.7	689.5	696.7	698.5
27.5°	671.5	673.3	675.1	682.3	684.1
30°	653.5	655.3	657.1	666.1	667.9
32.5°	631.9	635.5	639.1	649.9	649.9
35°	610.3	613.9	619.3	631.9	633.7
37.5°	586.9	590.5	597.7	612.1	615.7
40°	561.7	567.1	577.9	592.3	597.7
42.5°	536.5	543.7	556.3	572.5	579.7
45°	509.5	516.7	532.9	552.7	561.7
47.5°	480.7	489.7	509.5	534.7	541.9
50°	450.1	462.7	486.1	513.1	522.1
52.5°	419.5	433.9	462.7	491.5	500.5
55°	387.1	403.3	439.3	468.1	478.9
57.5°	354.7	372.7	414.1	444.7	455.5
60°	320.5	342.1	387.1	417.7	426.7
62.5°	286.3	311.5	360.1	390.7	397.9
65°	250.2	280.9	331.3	358.3	365.5
67.5°	216.0	252.0	302.5	322.3	322.3
70°	180.0	219.6	270.0	275.4	264.6
72.5°	144.0	189.0	234.0	214.2	205.2
75°	109.8	160.2	183.6	165.6	160.2
77.5°	82.8	129.6	129.6	118.8	115.2
80°	57.6	99.0	86.4	75.6	70.2
82.5°	37.8	55.8	45.0	36.0	30.6
85°	19.8	21.6	12.6	10.8	9.0
87.5°	7.2	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)