

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: P275774

Luminaire Tested: **14CZ2-39-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275774
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1921.0 lumens
Efficiency: N/A
Efficacy: 60.6 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

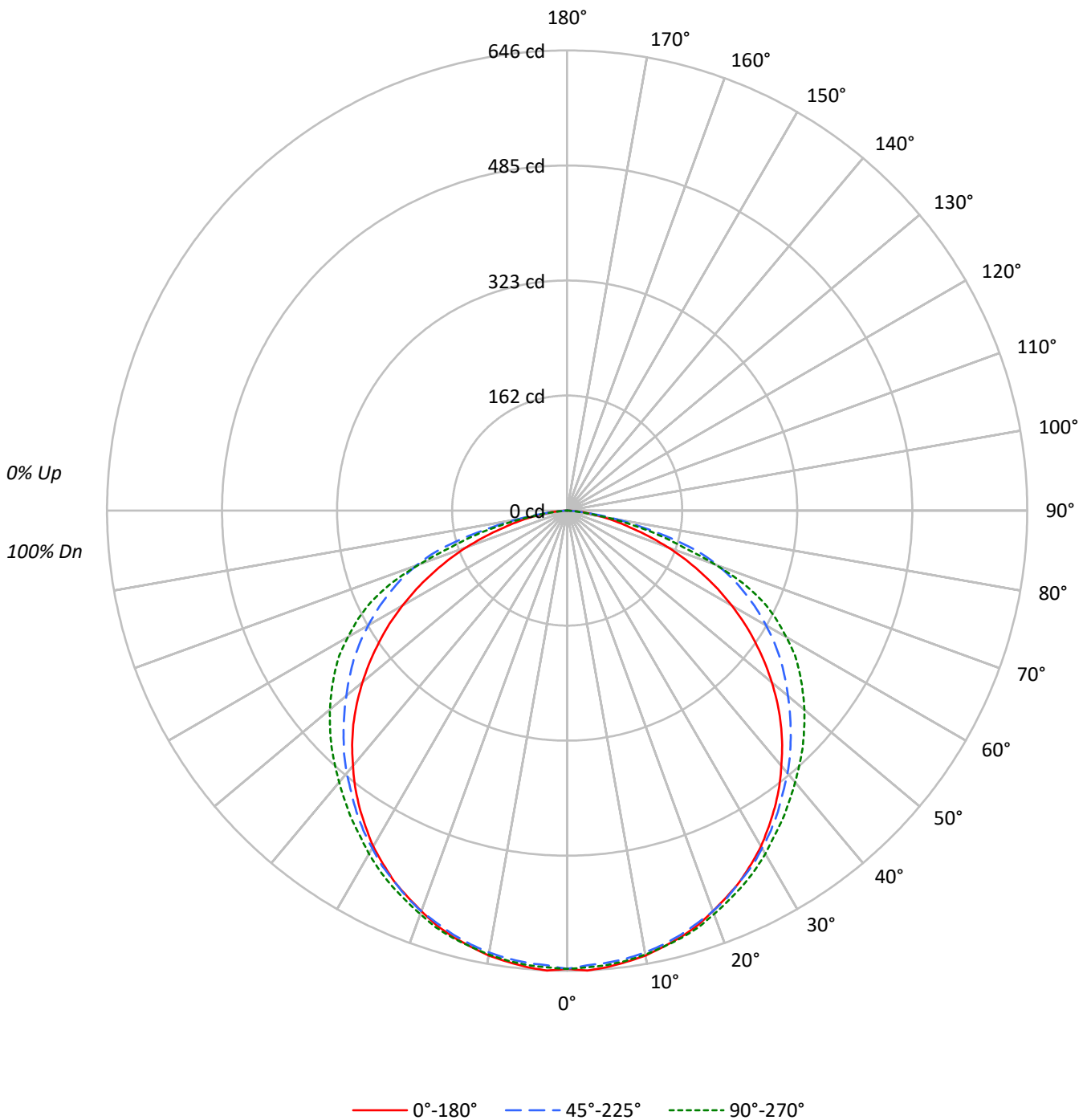
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1731	1731	1731
5°	1738	1722	1730
10°	1733	1721	1729
15°	1726	1717	1730
20°	1714	1714	1727
25°	1705	1705	1728
30°	1692	1701	1729
35°	1670	1695	1734
40°	1644	1691	1749
45°	1615	1689	1781
50°	1569	1695	1821
55°	1513	1717	1871
60°	1437	1735	1913
65°	1328	1757	1938
70°	1180	1770	1735
75°	951	1591	1388
80°	744	1116	907
85°	509	324	232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	3.2
10°-20°	174.7	9.1
20°-30°	266.0	13.8
30°-40°	324.0	16.9
40°-50°	343.8	17.9
50°-60°	324.4	16.9
60°-70°	262.0	13.6
70°-80°	142.1	7.4
80°-90°	23.0	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°	501.7	26.1
0°-40°	825.7	43.0
0°-60°	1493.9	77.8
0°-90°	1921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	643	642	637	642	640	61
15°	619	618	616	621	621	175
25°	574	573	574	580	582	264
35°	508	511	516	526	528	318
45°	424	430	444	460	468	327
55°	322	336	366	390	399	288
65°	208	234	276	298	304	207
75°	92	134	153	138	134	100
85°	16	18	10	9	8	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	643.4	643.4	643.4	643.4	643.4
2.5°	646.4	643.4	638.9	643.4	641.9
5°	643.4	641.9	637.4	641.9	640.4
7.5°	638.9	638.9	634.4	637.4	637.4
10°	634.4	632.9	629.9	634.4	632.9
12.5°	626.9	625.4	623.9	628.4	626.9
15°	619.4	617.9	616.4	620.9	620.9
17.5°	610.4	608.9	607.4	613.4	613.4
20°	598.4	598.4	598.4	604.4	602.9
22.5°	586.4	586.4	587.9	593.9	592.4
25°	574.4	572.9	574.4	580.4	581.9
27.5°	559.4	560.9	562.4	568.4	569.9
30°	544.4	545.9	547.4	554.9	556.4
32.5°	526.4	529.4	532.4	541.4	541.4
35°	508.4	511.4	515.9	526.4	527.9
37.5°	488.9	491.9	497.9	509.9	512.9
40°	467.9	472.4	481.4	493.4	497.9
42.5°	446.9	452.9	463.4	476.9	482.9
45°	424.4	430.4	443.9	460.4	467.9
47.5°	400.4	407.9	424.4	445.4	451.4
50°	374.9	385.4	404.9	427.4	434.9
52.5°	349.4	361.4	385.4	409.4	416.9
55°	322.4	335.9	365.9	389.9	398.9
57.5°	295.5	310.4	344.9	370.4	379.4
60°	267.0	285.0	322.4	347.9	355.4
62.5°	238.5	259.5	299.9	325.4	331.4
65°	208.5	234.0	276.0	298.4	304.4
67.5°	180.0	210.0	252.0	268.5	268.5
70°	150.0	183.0	225.0	229.5	220.5
72.5°	120.0	157.5	195.0	178.5	171.0
75°	91.5	133.5	153.0	138.0	133.5
77.5°	69.0	108.0	108.0	99.0	96.0
80°	48.0	82.5	72.0	63.0	58.5
82.5°	31.5	46.5	37.5	30.0	25.5
85°	16.5	18.0	10.5	9.0	7.5
87.5°	6.0	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)