

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: P275768

Luminaire Tested: **14CZ2-29-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275768
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: 14CZ2-29-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1738.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

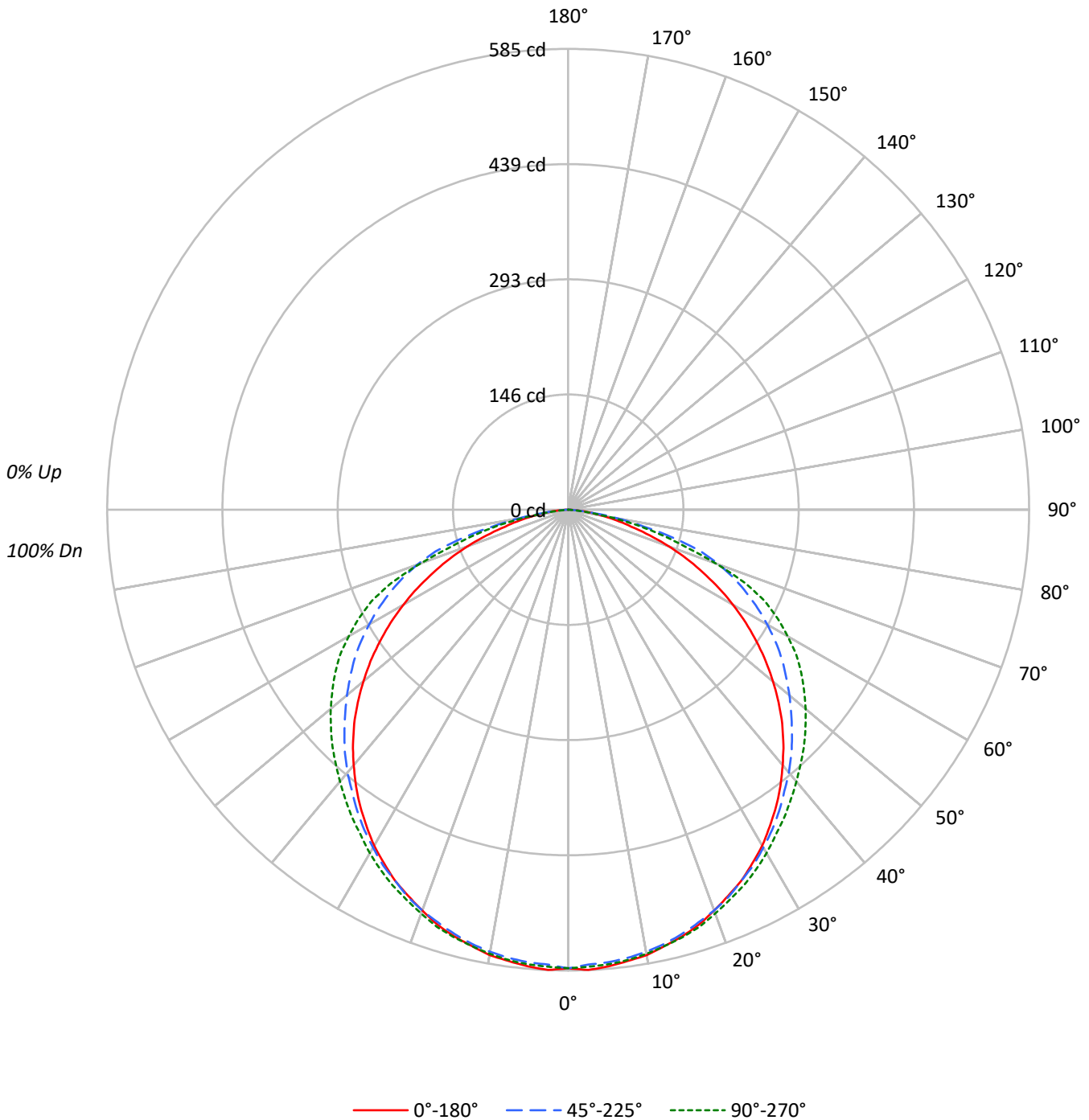
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1566	1566	1566
5°	1572	1558	1565
10°	1568	1557	1565
15°	1561	1554	1565
20°	1550	1550	1562
25°	1543	1543	1563
30°	1530	1539	1564
35°	1511	1533	1569
40°	1487	1530	1583
45°	1461	1528	1611
50°	1420	1534	1647
55°	1369	1553	1693
60°	1300	1570	1731
65°	1201	1590	1754
70°	1068	1601	1570
75°	861	1439	1256
80°	673	1009	820
85°	460	293	210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.2
10°-20°	158.1	9.1
20°-30°	240.7	13.8
30°-40°	293.2	16.9
40°-50°	311.0	17.9
50°-60°	293.5	16.9
60°-70°	237.0	13.6
70°-80°	128.6	7.4
80°-90°	20.8	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°	453.9	26.1
0°-40°	747.0	43.0
0°-60°	1351.6	77.8
0°-90°	1738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	582	581	577	581	579	55
15°	560	559	558	562	562	158
25°	520	518	520	525	526	239
35°	460	463	467	476	478	288
45°	384	389	402	417	423	296
55°	292	304	331	353	361	261
65°	189	212	250	270	275	187
75°	83	121	138	125	121	90
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	582.1	582.1	582.1	582.1	582.1
2.5°	584.8	582.1	578.0	582.1	580.7
5°	582.1	580.7	576.7	580.7	579.4
7.5°	578.0	578.0	574.0	576.7	576.7
10°	574.0	572.6	569.9	574.0	572.6
12.5°	567.2	565.8	564.5	568.5	567.2
15°	560.4	559.0	557.7	561.7	561.7
17.5°	552.2	550.9	549.5	555.0	555.0
20°	541.4	541.4	541.4	546.8	545.5
22.5°	530.5	530.5	531.9	537.3	536.0
25°	519.7	518.3	519.7	525.1	526.5
27.5°	506.1	507.5	508.8	514.3	515.6
30°	492.5	493.9	495.3	502.0	503.4
32.5°	476.3	479.0	481.7	489.8	489.8
35°	460.0	462.7	466.8	476.3	477.6
37.5°	442.3	445.1	450.5	461.3	464.1
40°	423.3	427.4	435.6	446.4	450.5
42.5°	404.3	409.8	419.3	431.5	436.9
45°	384.0	389.4	401.6	416.6	423.3
47.5°	362.3	369.1	384.0	403.0	408.4
50°	339.2	348.7	366.4	386.7	393.5
52.5°	316.2	327.0	348.7	370.4	377.2
55°	291.7	303.9	331.1	352.8	360.9
57.5°	267.3	280.9	312.1	335.1	343.3
60°	241.5	257.8	291.7	314.8	321.6
62.5°	215.7	234.7	271.4	294.4	299.9
65°	188.6	211.7	249.7	270.0	275.4
67.5°	162.8	190.0	228.0	242.9	242.9
70°	135.7	165.5	203.5	207.6	199.5
72.5°	108.6	142.5	176.4	161.5	154.7
75°	82.8	120.8	138.4	124.8	120.8
77.5°	62.4	97.7	97.7	89.6	86.8
80°	43.4	74.6	65.1	57.0	52.9
82.5°	28.5	42.1	33.9	27.1	23.1
85°	14.9	16.3	9.5	8.1	6.8
87.5°	5.4	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)