

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: P275765

Luminaire Tested: **14CZ2-29-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275765
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1581.0 lumens
Efficiency: N/A
Efficacy: 70.0 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

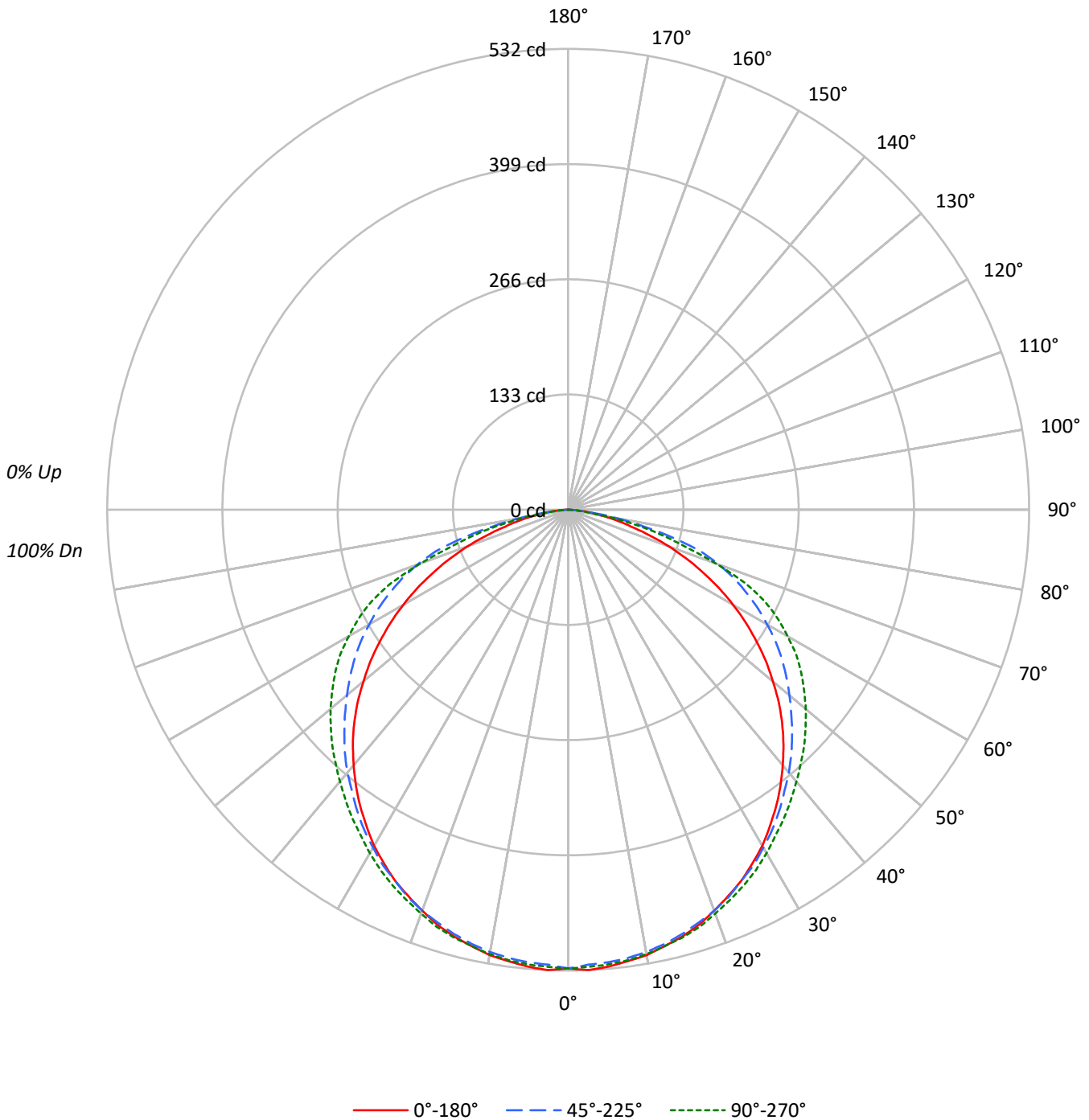
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1425	1425	1425
5°	1430	1417	1424
10°	1427	1417	1423
15°	1420	1413	1424
20°	1410	1410	1421
25°	1404	1404	1422
30°	1392	1400	1423
35°	1374	1395	1427
40°	1353	1392	1440
45°	1329	1391	1466
50°	1292	1395	1498
55°	1245	1413	1540
60°	1182	1428	1574
65°	1093	1446	1596
70°	971	1456	1427
75°	783	1309	1143
80°	612	917	745
85°	420	266	191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	3.2
10°-20°	143.8	9.1
20°-30°	219.0	13.8
30°-40°	266.7	16.9
40°-50°	282.9	17.9
50°-60°	267.0	16.9
60°-70°	215.6	13.6
70°-80°	117.0	7.4
80°-90°	18.9	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°	412.9	26.1
0°-40°	679.6	43.0
0°-60°	1229.5	77.8
0°-90°	1581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	528	525	528	527	50
15°	510	508	507	511	511	144
25°	473	472	473	478	479	218
35°	418	421	425	433	434	262
45°	349	354	365	379	385	269
55°	265	276	301	321	328	237
65°	172	193	227	246	251	170
75°	75	110	126	114	110	82
85°	14	15	9	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.5	529.5	529.5	529.5	529.5
2.5°	532.0	529.5	525.8	529.5	528.3
5°	529.5	528.3	524.6	528.3	527.0
7.5°	525.8	525.8	522.1	524.6	524.6
10°	522.1	520.9	518.4	522.1	520.9
12.5°	515.9	514.7	513.5	517.2	515.9
15°	509.8	508.5	507.3	511.0	511.0
17.5°	502.4	501.1	499.9	504.8	504.8
20°	492.5	492.5	492.5	497.4	496.2
22.5°	482.6	482.6	483.8	488.8	487.6
25°	472.7	471.5	472.7	477.7	478.9
27.5°	460.4	461.6	462.9	467.8	469.0
30°	448.1	449.3	450.5	456.7	457.9
32.5°	433.2	435.7	438.2	445.6	445.6
35°	418.4	420.9	424.6	433.2	434.5
37.5°	402.4	404.9	409.8	419.7	422.1
40°	385.1	388.8	396.2	406.1	409.8
42.5°	367.8	372.8	381.4	392.5	397.4
45°	349.3	354.2	365.4	378.9	385.1
47.5°	329.6	335.7	349.3	366.6	371.5
50°	308.6	317.2	333.3	351.8	357.9
52.5°	287.6	297.5	317.2	337.0	343.1
55°	265.4	276.5	301.2	320.9	328.3
57.5°	243.2	255.5	283.9	304.9	312.3
60°	219.7	234.5	265.4	286.4	292.5
62.5°	196.3	213.5	246.9	267.8	272.8
65°	171.6	192.6	227.1	245.6	250.6
67.5°	148.1	172.8	207.4	220.9	220.9
70°	123.4	150.6	185.1	188.8	181.4
72.5°	98.7	129.6	160.5	146.9	140.7
75°	75.3	109.9	125.9	113.6	109.9
77.5°	56.8	88.9	88.9	81.5	79.0
80°	39.5	67.9	59.2	51.8	48.1
82.5°	25.9	38.3	30.9	24.7	21.0
85°	13.6	14.8	8.6	7.4	6.2
87.5°	4.9	2.5	1.2	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)