

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: P275418

Luminaire Tested: **14CZ2-20-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1617.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

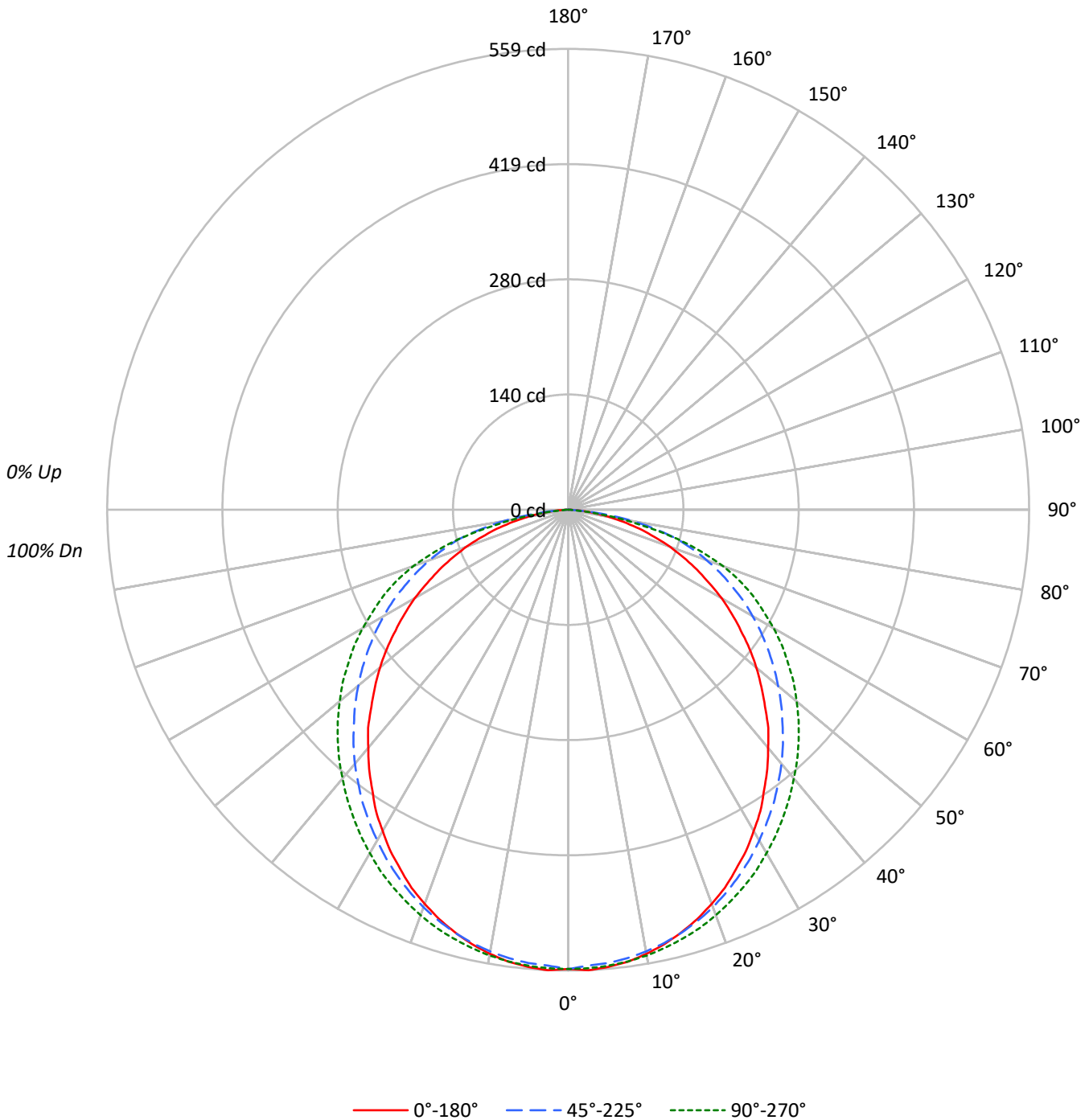
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1499	1499	1499
5°	1504	1491	1500
10°	1495	1487	1500
15°	1478	1480	1500
20°	1457	1469	1499
25°	1429	1455	1498
30°	1398	1440	1495
35°	1361	1427	1494
40°	1325	1414	1496
45°	1284	1398	1504
50°	1247	1392	1514
55°	1199	1387	1528
60°	1157	1390	1548
65°	1097	1394	1573
70°	1030	1404	1571
75°	934	1417	1421
80°	766	1224	1012
85°	568	577	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.3
10°-20°	150.6	9.3
20°-30°	226.8	14.0
30°-40°	272.2	16.8
40°-50°	283.7	17.5
50°-60°	262.7	16.2
60°-70°	212.2	13.1
70°-80°	129.4	8.0
80°-90°	26.7	1.7
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°	430.1	26.6
0°-40°	702.3	43.4
0°-60°	1248.7	77.2
0°-90°	1617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	557	555	552	556	555	53
15°	531	531	531	538	538	150
25°	481	484	490	502	504	222
35°	414	421	434	450	455	260
45°	338	348	367	388	395	261
55°	256	269	296	319	326	229
65°	172	189	219	241	247	170
75°	90	110	136	138	137	94
85°	18	27	19	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.1	557.1	557.1	557.1	557.1
2.5°	559.2	557.4	553.5	557.4	556.7
5°	556.7	555.3	552.0	556.0	555.3
7.5°	553.1	551.7	548.8	553.5	552.7
10°	547.0	546.2	544.1	549.5	549.1
12.5°	539.8	539.4	538.3	544.4	544.1
15°	530.7	531.1	531.1	538.3	538.3
17.5°	520.6	521.4	522.8	530.7	531.8
20°	508.7	510.2	513.1	522.1	523.5
22.5°	496.5	497.6	501.9	512.7	514.2
25°	481.3	484.2	490.0	502.3	504.4
27.5°	466.9	469.4	477.4	490.0	493.6
30°	450.0	453.9	463.3	477.0	481.0
32.5°	433.8	438.1	448.9	464.8	468.4
35°	414.3	420.8	434.5	450.3	454.7
37.5°	396.6	402.7	418.2	435.6	440.6
40°	377.1	384.7	402.4	420.8	425.8
42.5°	359.1	366.3	385.4	404.2	411.0
45°	337.5	347.6	367.4	388.0	395.2
47.5°	317.7	327.7	350.5	372.5	378.9
50°	297.8	308.6	332.4	355.1	361.6
52.5°	277.3	288.8	314.4	337.1	344.7
55°	255.6	269.0	295.7	318.7	325.6
57.5°	235.1	248.8	277.3	300.7	307.6
60°	214.9	229.0	258.2	280.5	287.7
62.5°	192.5	209.1	239.4	261.4	266.8
65°	172.3	189.3	218.9	240.9	247.0
67.5°	151.1	169.5	199.0	219.2	225.0
70°	130.9	150.0	178.5	197.2	199.7
72.5°	109.2	128.7	157.6	169.5	169.5
75°	89.8	109.6	136.3	138.5	136.7
77.5°	68.5	90.5	107.8	103.5	99.2
80°	49.4	71.0	79.0	71.0	65.3
82.5°	33.2	51.6	47.6	37.9	33.5
85°	18.4	27.4	18.7	10.5	7.6
87.5°	6.9	6.1	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)