

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: P275861

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275861
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-L92765-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: 1720.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

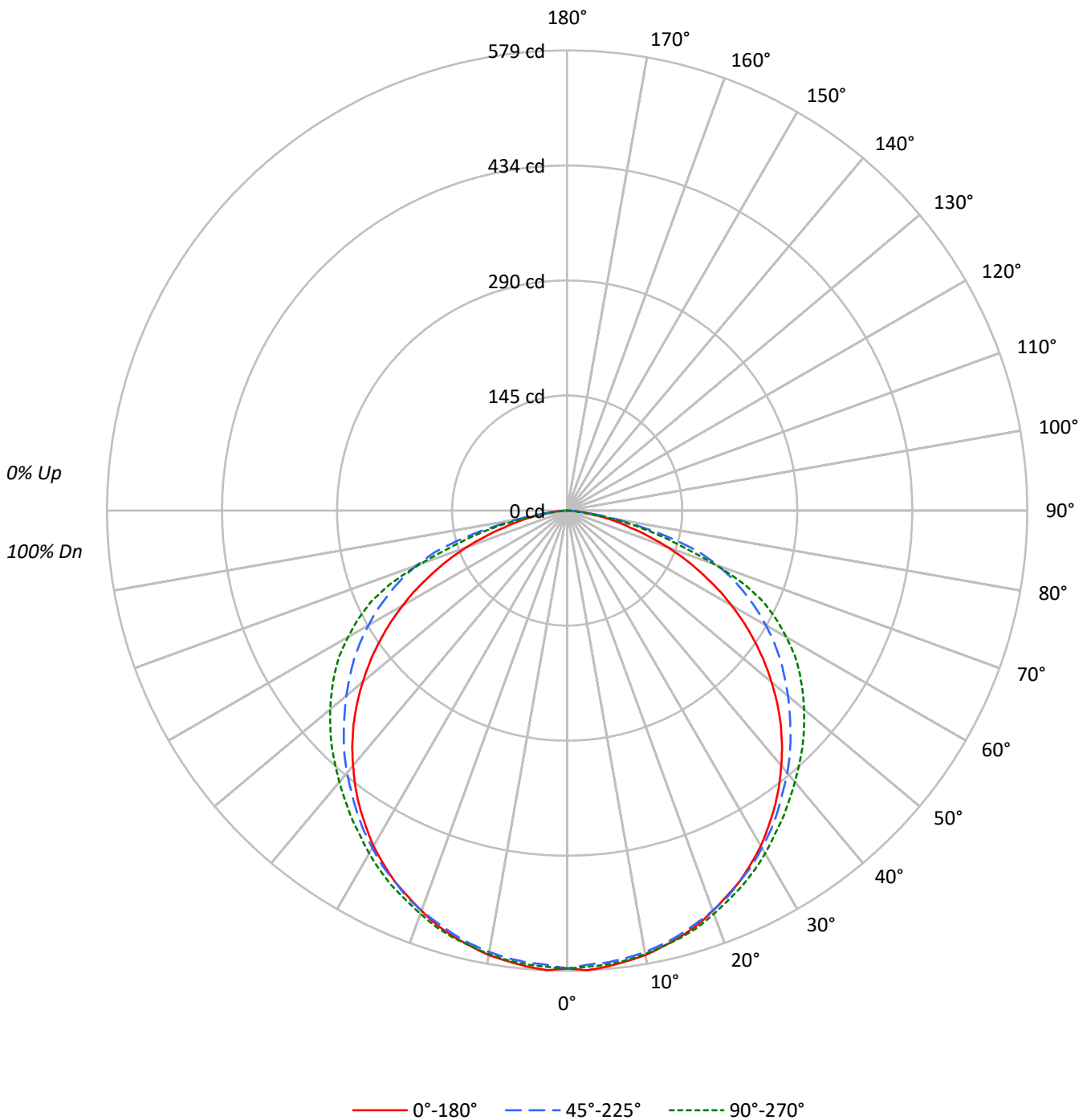
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1550	1550	1550
5°	1556	1542	1549
10°	1552	1541	1549
15°	1545	1538	1549
20°	1534	1534	1546
25°	1527	1527	1547
30°	1514	1523	1548
35°	1495	1517	1553
40°	1472	1514	1566
45°	1446	1513	1595
50°	1405	1518	1630
55°	1354	1537	1676
60°	1286	1554	1713
65°	1189	1573	1736
70°	1057	1585	1553
75°	852	1424	1242
80°	666	1000	812
85°	457	290	207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.2
10°-20°	156.4	9.1
20°-30°	238.2	13.8
30°-40°	290.1	16.9
40°-50°	307.8	17.9
50°-60°	290.5	16.9
60°-70°	234.6	13.6
70°-80°	127.2	7.4
80°-90°	20.6	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°	449.2	26.1
0°-40°	739.3	43.0
0°-60°	1337.6	77.8
0°-90°	1720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	576	575	571	575	573	55
15°	555	553	552	556	556	156
25°	514	513	514	520	521	237
35°	455	458	462	471	473	285
45°	380	385	398	412	419	293
55°	289	301	328	349	357	258
65°	187	210	247	267	273	185
75°	82	120	137	124	120	90
85°	15	16	9	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.1	576.1	576.1	576.1	576.1
2.5°	578.8	576.1	572.0	576.1	574.7
5°	576.1	574.7	570.7	574.7	573.4
7.5°	572.0	572.0	568.0	570.7	570.7
10°	568.0	566.7	564.0	568.0	566.7
12.5°	561.3	560.0	558.6	562.6	561.3
15°	554.6	553.2	551.9	555.9	555.9
17.5°	546.5	545.2	543.8	549.2	549.2
20°	535.8	535.8	535.8	541.2	539.8
22.5°	525.0	525.0	526.4	531.8	530.4
25°	514.3	513.0	514.3	519.7	521.0
27.5°	500.9	502.2	503.6	508.9	510.3
30°	487.4	488.8	490.1	496.8	498.2
32.5°	471.3	474.0	476.7	484.8	484.8
35°	455.2	457.9	461.9	471.3	472.7
37.5°	437.8	440.4	445.8	456.6	459.2
40°	419.0	423.0	431.0	441.8	445.8
42.5°	400.2	405.5	414.9	427.0	432.4
45°	380.0	385.4	397.5	412.2	419.0
47.5°	358.5	365.2	380.0	398.8	404.2
50°	335.7	345.1	362.6	382.7	389.4
52.5°	312.9	323.6	345.1	366.6	373.3
55°	288.7	300.8	327.6	349.1	357.2
57.5°	264.5	278.0	308.8	331.7	339.7
60°	239.0	255.1	288.7	311.5	318.2
62.5°	213.5	232.3	268.6	291.4	296.8
65°	186.7	209.5	247.1	267.2	272.6
67.5°	161.1	188.0	225.6	240.4	240.4
70°	134.3	163.8	201.4	205.5	197.4
72.5°	107.4	141.0	174.6	159.8	153.1
75°	81.9	119.5	137.0	123.5	119.5
77.5°	61.8	96.7	96.7	88.6	85.9
80°	43.0	73.9	64.5	56.4	52.4
82.5°	28.2	41.6	33.6	26.9	22.8
85°	14.8	16.1	9.4	8.1	6.7
87.5°	5.4	2.7	1.3	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)