

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: P260391

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1886.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

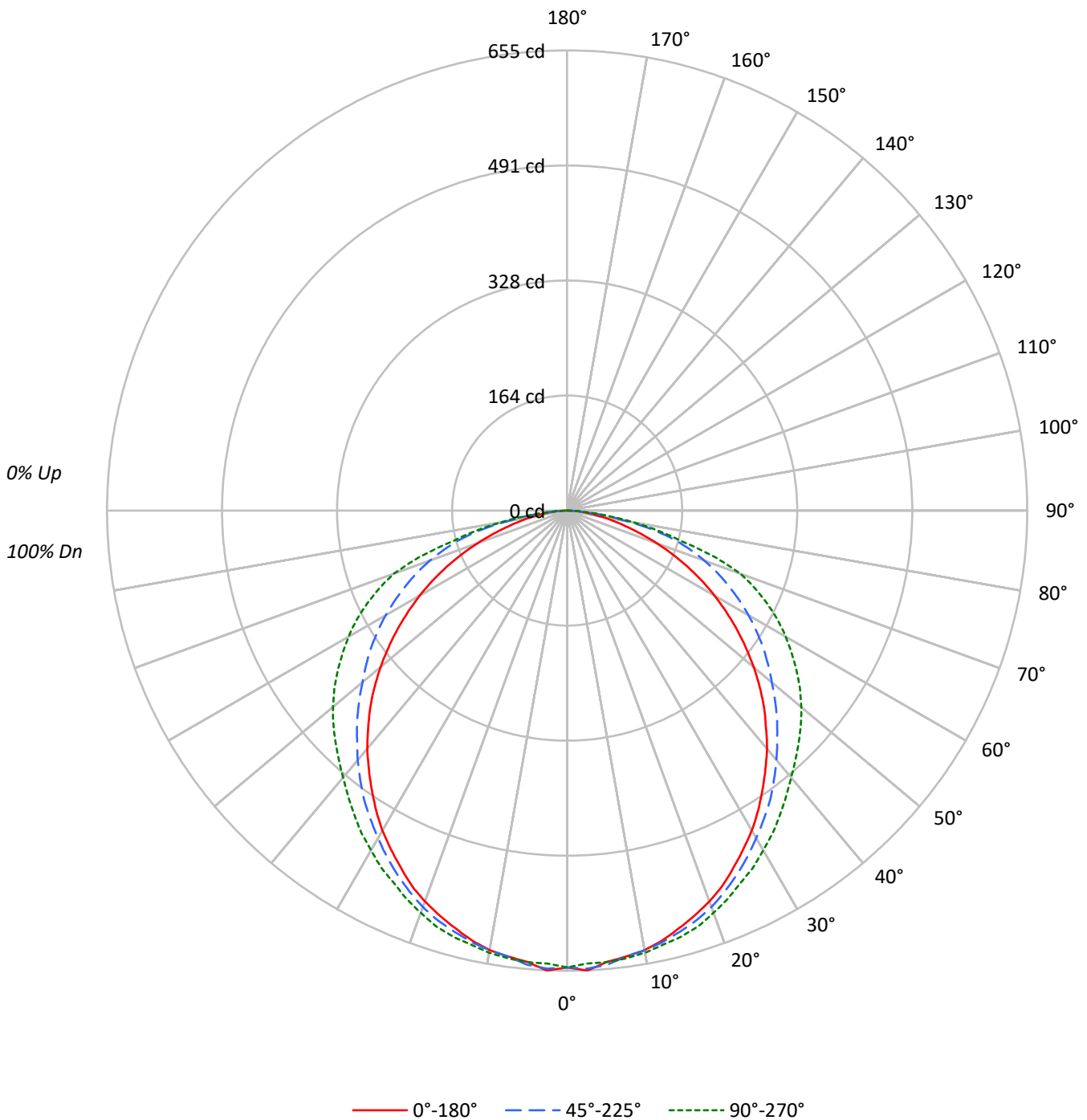
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	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	57
4	82	69	60	54	79	68	60	53	66	58	52		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	37	31		43	36	31		42	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	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1750	1750	1750
5°	1743	1753	1743
10°	1736	1736	1746
15°	1714	1728	1749
20°	1695	1720	1745
25°	1665	1698	1735
30°	1634	1673	1734
35°	1593	1654	1736
40°	1555	1629	1743
45°	1509	1609	1774
50°	1452	1593	1822
55°	1383	1598	1872
60°	1305	1606	1934
65°	1203	1615	2003
70°	1066	1633	2064
75°	905	1629	1758
80°	752	1309	1464
85°	651	883	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.3
10°-20°	175.2	9.3
20°-30°	263.6	14.0
30°-40°	315.9	16.8
40°-50°	329.5	17.5
50°-60°	306.7	16.3
60°-70°	249.1	13.2
70°-80°	150.1	8.0
80°-90°	34.4	1.8
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°	500.3	26.5
0°-40°	816.2	43.3
0°-60°	1452.4	77.0
0°-90°	1886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	645	645	649	650	645	61
15°	615	618	620	624	628	174
25°	561	564	572	579	584	258
35°	485	491	504	518	528	303
45°	397	404	423	450	466	305
55°	295	307	341	378	399	263
65°	189	209	254	293	314	187
75°	87	116	157	167	169	94
85°	21	26	29	27	27	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.2	650.2	650.2	650.2	650.2
2.5°	655.2	654.0	652.7	649.0	645.2
5°	645.2	645.2	649.0	650.2	645.2
7.5°	640.3	640.3	640.3	645.2	642.8
10°	635.3	635.3	635.3	639.0	639.0
12.5°	626.6	627.8	629.1	630.3	632.8
15°	615.4	617.9	620.4	624.1	627.8
17.5°	604.2	606.7	611.7	615.4	620.4
20°	591.8	594.3	600.5	604.2	609.2
22.5°	578.1	579.4	586.8	591.8	598.0
25°	560.7	564.4	571.9	579.4	584.3
27.5°	543.3	547.0	555.7	565.7	573.1
30°	525.9	529.6	538.3	550.8	558.2
32.5°	506.0	511.0	520.9	535.8	544.5
35°	484.9	491.1	503.5	518.4	528.4
37.5°	463.7	470.0	483.6	502.3	512.2
40°	442.6	448.8	463.7	483.6	496.1
42.5°	419.0	426.4	442.6	466.2	481.1
45°	396.6	404.1	422.7	450.1	466.2
47.5°	371.7	380.4	401.6	432.7	451.3
50°	346.9	356.8	380.4	415.2	435.1
52.5°	320.8	331.9	360.5	396.6	417.7
55°	294.7	307.1	340.7	377.9	399.1
57.5°	268.5	282.2	319.5	358.1	379.2
60°	242.4	257.4	298.4	338.2	359.3
62.5°	216.3	232.5	276.0	315.8	338.2
65°	189.0	208.9	253.6	293.4	314.5
67.5°	161.6	185.2	231.2	269.8	289.7
70°	135.5	161.6	207.6	243.7	262.3
72.5°	110.6	138.0	182.8	213.8	221.3
75°	87.0	115.6	156.7	166.6	169.1
77.5°	67.1	93.2	124.3	126.8	133.0
80°	48.5	70.9	84.5	92.0	94.5
82.5°	33.6	48.5	55.9	57.2	58.4
85°	21.1	26.1	28.6	27.4	27.4
87.5°	11.2	9.9	8.7	6.2	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)