

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: P260387

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260387
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-LD5-20-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1687.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

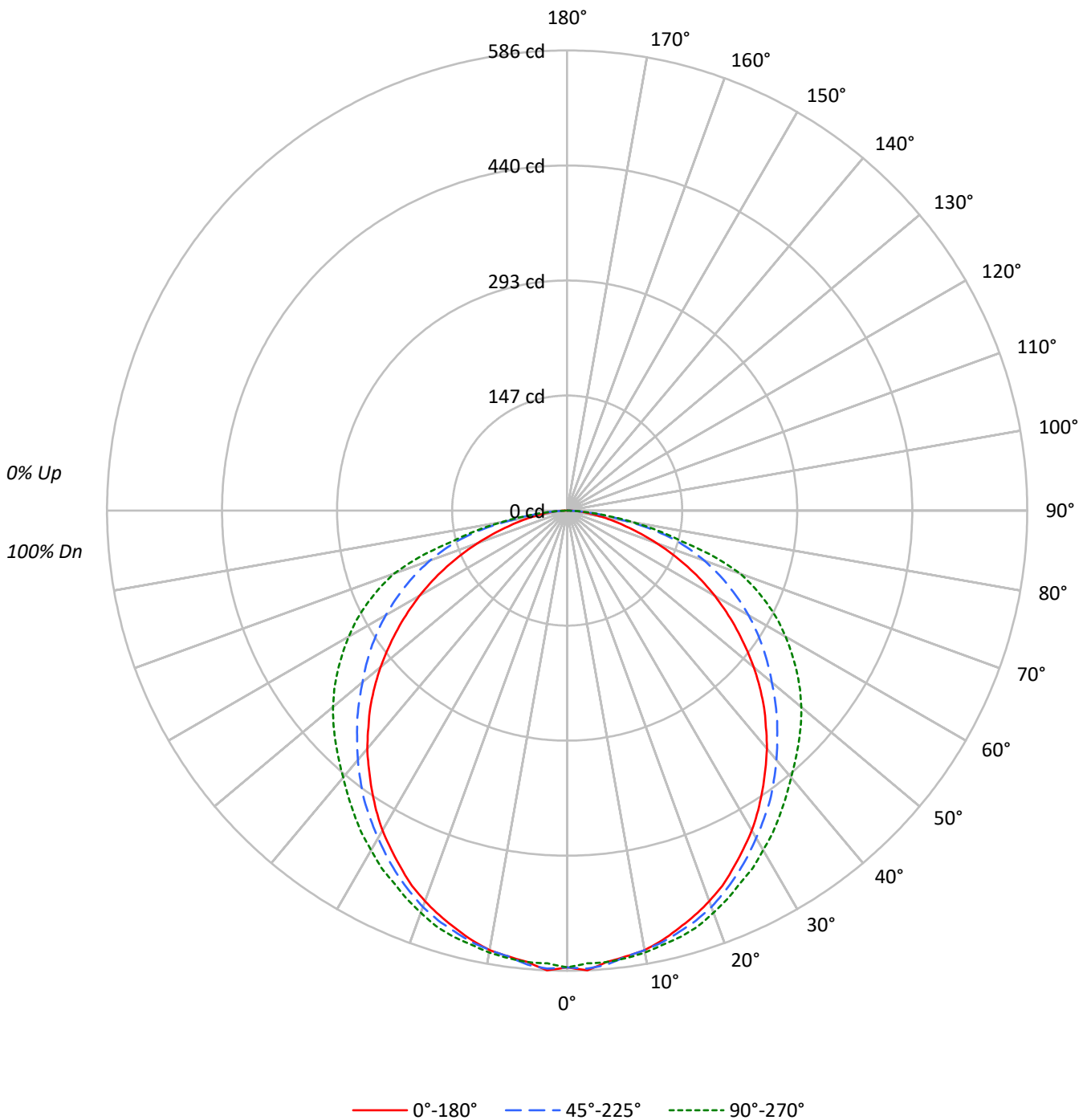
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260387

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P260387

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4500K

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°	1565	1565	1565
5°	1559	1568	1559
10°	1553	1553	1562
15°	1534	1546	1565
20°	1516	1538	1560
25°	1489	1519	1552
30°	1462	1496	1551
35°	1425	1480	1553
40°	1391	1457	1559
45°	1350	1439	1587
50°	1299	1425	1629
55°	1237	1430	1675
60°	1167	1436	1730
65°	1076	1445	1792
70°	954	1461	1846
75°	809	1457	1572
80°	673	1172	1309
85°	584	790	756



TEST NUMBER: P260387

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	3.3
10°-20°	156.7	9.3
20°-30°	235.8	14.0
30°-40°	282.6	16.8
40°-50°	294.7	17.5
50°-60°	274.4	16.3
60°-70°	222.8	13.2
70°-80°	134.2	8.0
80°-90°	30.8	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°	447.5	26.5
0°-40°	730.1	43.3
0°-60°	1299.2	77.0
0°-90°	1687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	577	577	580	582	577	55
15°	550	553	555	558	562	155
25°	502	505	512	518	523	231
35°	434	439	450	464	473	271
45°	355	361	378	403	417	273
55°	264	275	305	338	357	236
65°	169	187	227	262	281	167
75°	78	103	140	149	151	84
85°	19	23	26	24	24	22
90°	0	0	0	0	0	



TEST NUMBER: P260387

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.6	581.6	581.6	581.6	581.6
2.5°	586.1	585.0	583.8	580.5	577.2
5°	577.2	577.2	580.5	581.6	577.2
7.5°	572.7	572.7	572.7	577.2	574.9
10°	568.3	568.3	568.3	571.6	571.6
12.5°	560.5	561.6	562.7	563.8	566.0
15°	550.5	552.7	554.9	558.3	561.6
17.5°	540.5	542.7	547.1	550.5	554.9
20°	529.3	531.6	537.1	540.5	544.9
22.5°	517.1	518.2	524.9	529.3	534.9
25°	501.5	504.9	511.6	518.2	522.7
27.5°	486.0	489.3	497.1	506.0	512.7
30°	470.4	473.7	481.5	492.6	499.3
32.5°	452.6	457.1	466.0	479.3	487.1
35°	433.7	439.3	450.4	463.7	472.6
37.5°	414.8	420.4	432.6	449.3	458.2
40°	395.9	401.5	414.8	432.6	443.7
42.5°	374.8	381.4	395.9	417.0	430.4
45°	354.8	361.4	378.1	402.6	417.0
47.5°	332.5	340.3	359.2	387.0	403.7
50°	310.3	319.2	340.3	371.4	389.2
52.5°	286.9	296.9	322.5	354.8	373.7
55°	263.6	274.7	304.7	338.1	357.0
57.5°	240.2	252.4	285.8	320.3	339.2
60°	216.9	230.2	266.9	302.5	321.4
62.5°	193.5	208.0	246.9	282.5	302.5
65°	169.0	186.8	226.9	262.4	281.4
67.5°	144.6	165.7	206.8	241.3	259.1
70°	121.2	144.6	185.7	218.0	234.6
72.5°	99.0	123.4	163.5	191.3	197.9
75°	77.8	103.4	140.1	149.0	151.2
77.5°	60.1	83.4	111.2	113.4	119.0
80°	43.4	63.4	75.6	82.3	84.5
82.5°	30.0	43.4	50.0	51.2	52.3
85°	18.9	23.4	25.6	24.5	24.5
87.5°	10.0	8.9	7.8	5.6	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)