

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: P230881

Luminaire Tested: **22CZ-LD5-44SE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230881
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-LD5-44SE-RDP-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2481.0 lumens
Efficiency: N/A
Efficacy: 62.0 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

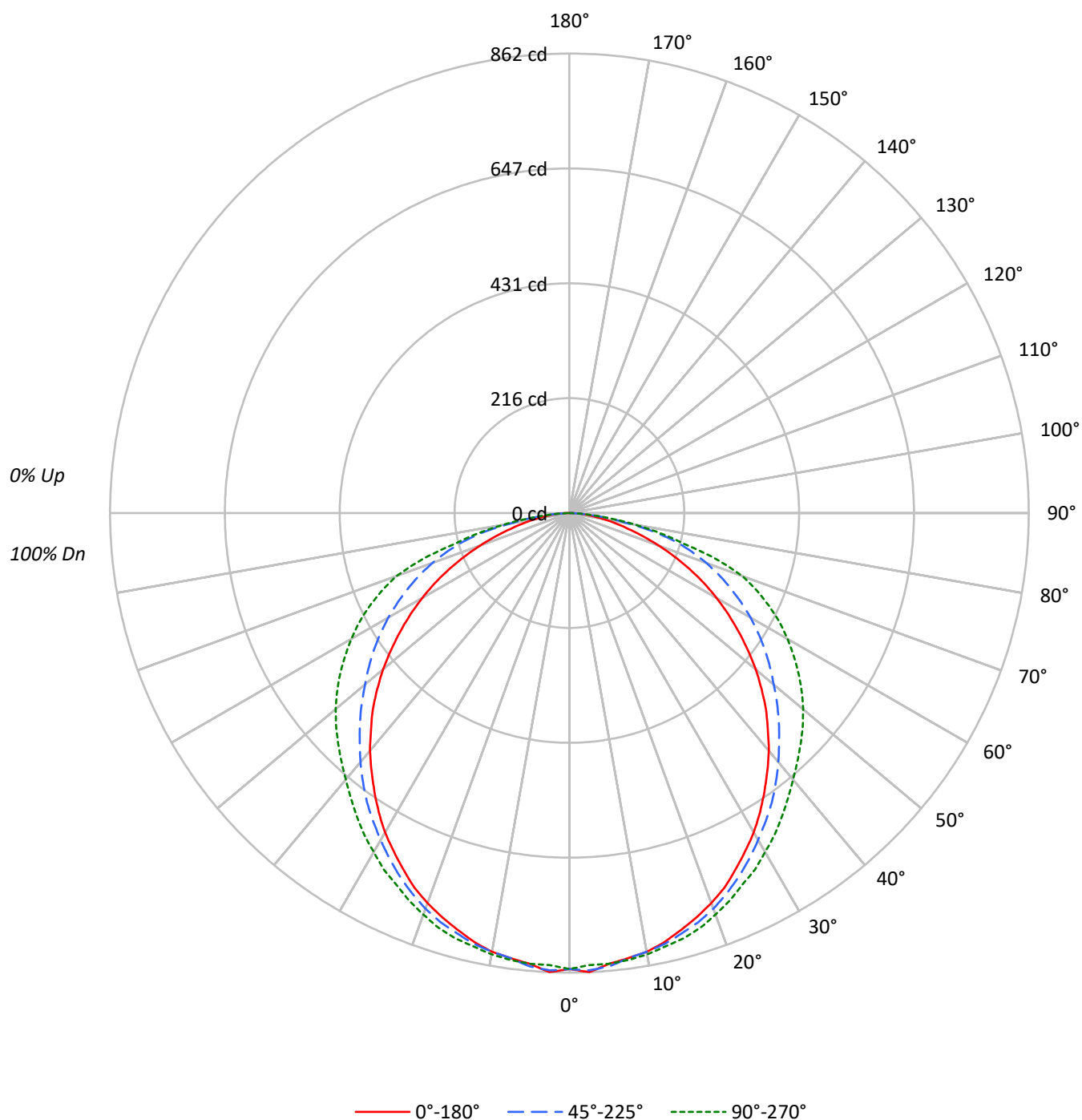
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P230881

CATALOG NUMBER: 22CZ-LD5-44SE-RDP-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P230881

CATALOG NUMBER: 22CZ-LD5-44SE-RDP-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2302	2302	2302
5°	2293	2306	2293
10°	2284	2284	2297
15°	2255	2274	2301
20°	2229	2262	2295
25°	2190	2234	2282
30°	2150	2201	2282
35°	2095	2176	2283
40°	2045	2143	2292
45°	1985	2116	2334
50°	1910	2095	2396
55°	1818	2102	2463
60°	1716	2112	2544
65°	1583	2124	2635
70°	1403	2149	2715
75°	1190	2143	2312
80°	989	1723	1926
85°	858	1161	1112



TEST NUMBER: P230881

CATALOG NUMBER: 22CZ-LD5-44SE-RDP-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.3
10°-20°	230.5	9.3
20°-30°	346.8	14.0
30°-40°	415.6	16.8
40°-50°	433.4	17.5
50°-60°	403.5	16.3
60°-70°	327.6	13.2
70°-80°	197.4	8.0
80°-90°	45.3	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°	658.1	26.5
0°-40°	1073.7	43.3
0°-60°	1910.6	77.0
0°-90°	2481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	849	849	854	855	849	81
15°	810	813	816	821	826	228
25°	738	742	752	762	769	340
35°	638	646	662	682	695	399
45°	522	532	556	592	613	402
55°	388	404	448	497	525	347
65°	249	275	334	386	414	246
75°	114	152	206	219	222	124
85°	28	34	38	36	36	32
90°	0	0	0	0	0	



TEST NUMBER: P230881

CATALOG NUMBER: 22CZ-LD5-44SE-RDP-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.4	855.4	855.4	855.4	855.4
2.5°	861.9	860.3	858.6	853.7	848.8
5°	848.8	848.8	853.7	855.4	848.8
7.5°	842.3	842.3	842.3	848.8	845.5
10°	835.7	835.7	835.7	840.6	840.6
12.5°	824.3	825.9	827.6	829.2	832.5
15°	809.6	812.8	816.1	821.0	825.9
17.5°	794.8	798.1	804.7	809.6	816.1
20°	778.5	781.8	789.9	794.8	801.4
22.5°	760.5	762.1	771.9	778.5	786.7
25°	737.6	742.5	752.3	762.1	768.7
27.5°	714.7	719.6	731.1	744.1	754.0
30°	691.8	696.7	708.2	724.5	734.3
32.5°	665.6	672.2	685.3	704.9	716.3
35°	637.8	646.0	662.4	682.0	695.1
37.5°	610.0	618.2	636.2	660.7	673.8
40°	582.2	590.4	610.0	636.2	652.6
42.5°	551.2	561.0	582.2	613.3	632.9
45°	521.7	531.5	556.1	592.0	613.3
47.5°	489.0	500.5	528.3	569.1	593.7
50°	456.3	469.4	500.5	546.3	572.4
52.5°	422.0	436.7	474.3	521.7	549.5
55°	387.6	404.0	448.1	497.2	525.0
57.5°	353.3	371.3	420.3	471.0	498.8
60°	318.9	338.5	392.5	444.9	472.7
62.5°	284.6	305.8	363.1	415.4	444.9
65°	248.6	274.8	333.6	386.0	413.8
67.5°	212.6	243.7	304.2	354.9	381.1
70°	178.3	212.6	273.1	320.6	345.1
72.5°	145.6	181.5	240.4	281.3	291.1
75°	114.5	152.1	206.1	219.2	222.4
77.5°	88.3	122.7	163.5	166.8	175.0
80°	63.8	93.2	111.2	121.0	124.3
82.5°	44.2	63.8	73.6	75.2	76.9
85°	27.8	34.3	37.6	36.0	36.0
87.5°	14.7	13.1	11.4	8.2	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)