

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: P260536

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260536
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-LD5-39-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2483.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

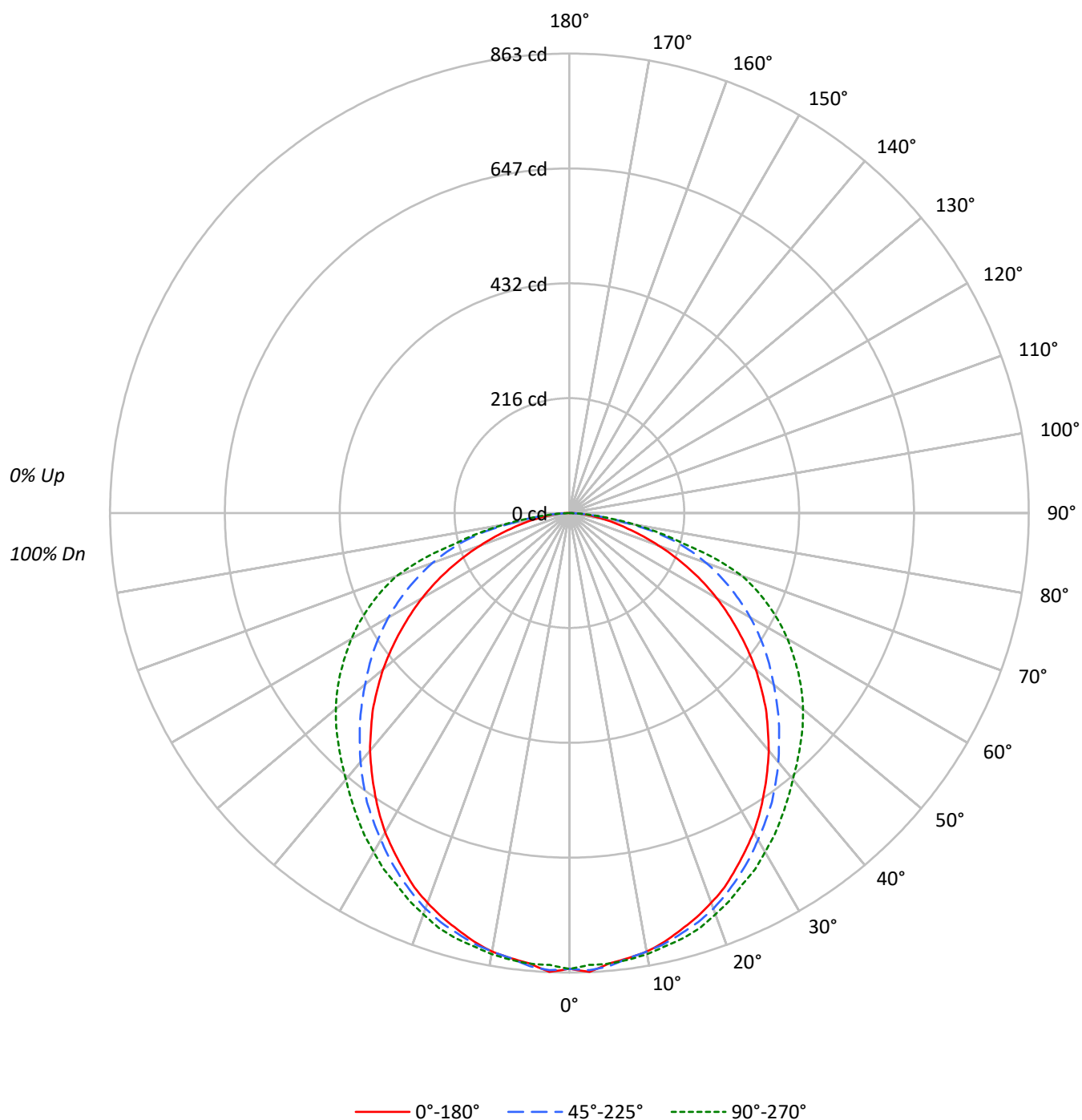
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260536

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260536

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	2303	2303	2303
5°	2295	2308	2295
10°	2285	2285	2299
15°	2257	2276	2303
20°	2231	2264	2297
25°	2192	2235	2284
30°	2151	2202	2284
35°	2097	2178	2285
40°	2047	2145	2294
45°	1987	2118	2336
50°	1912	2097	2398
55°	1820	2104	2465
60°	1718	2114	2546
65°	1584	2126	2637
70°	1404	2150	2718
75°	1192	2144	2314
80°	989	1725	1928
85°	858	1161	1112



TEST NUMBER: P260536

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.3
10°-20°	230.7	9.3
20°-30°	347.1	14.0
30°-40°	415.9	16.8
40°-50°	433.8	17.5
50°-60°	403.8	16.3
60°-70°	327.9	13.2
70°-80°	197.6	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°	658.7	26.5
0°-40°	1074.6	43.3
0°-60°	1912.2	77.0
0°-90°	2483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	850	850	854	856	850	81
15°	810	814	817	822	827	229
25°	738	743	753	763	769	340
35°	638	646	663	682	696	400
45°	522	532	556	592	614	402
55°	388	404	448	498	525	347
65°	249	275	334	386	414	246
75°	115	152	206	219	223	124
85°	28	34	38	36	36	32
90°	0	0	0	0	0	



TEST NUMBER: P260536

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.0	856.0	856.0	856.0	856.0
2.5°	862.6	861.0	859.3	854.4	849.5
5°	849.5	849.5	854.4	856.0	849.5
7.5°	843.0	843.0	843.0	849.5	846.2
10°	836.4	836.4	836.4	841.3	841.3
12.5°	824.9	826.6	828.2	829.9	833.1
15°	810.2	813.5	816.8	821.7	826.6
17.5°	795.5	798.8	805.3	810.2	816.8
20°	779.1	782.4	790.6	795.5	802.0
22.5°	761.1	762.7	772.6	779.1	787.3
25°	738.2	743.1	752.9	762.7	769.3
27.5°	715.3	720.2	731.6	744.7	754.6
30°	692.4	697.3	708.7	725.1	734.9
32.5°	666.2	672.7	685.8	705.5	716.9
35°	638.4	646.5	662.9	682.5	695.6
37.5°	610.5	618.7	636.7	661.3	674.4
40°	582.7	590.9	610.5	636.7	653.1
42.5°	551.6	561.4	582.7	613.8	633.4
45°	522.1	532.0	556.5	592.5	613.8
47.5°	489.4	500.9	528.7	569.6	594.2
50°	456.7	469.8	500.9	546.7	572.9
52.5°	422.3	437.0	474.7	522.1	550.0
55°	387.9	404.3	448.5	497.6	525.4
57.5°	353.5	371.6	420.7	471.4	499.2
60°	319.2	338.8	392.8	445.2	473.0
62.5°	284.8	306.1	363.4	415.7	445.2
65°	248.8	275.0	333.9	386.3	414.1
67.5°	212.8	243.9	304.4	355.2	381.4
70°	178.4	212.8	273.3	320.8	345.4
72.5°	145.7	181.7	240.6	281.5	291.3
75°	114.6	152.2	206.2	219.3	222.6
77.5°	88.4	122.8	163.7	167.0	175.1
80°	63.8	93.3	111.3	121.1	124.4
82.5°	44.2	63.8	73.7	75.3	76.9
85°	27.8	34.4	37.6	36.0	36.0
87.5°	14.7	13.1	11.5	8.2	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)