

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: P260517

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260517
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-LD5-29-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1711.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

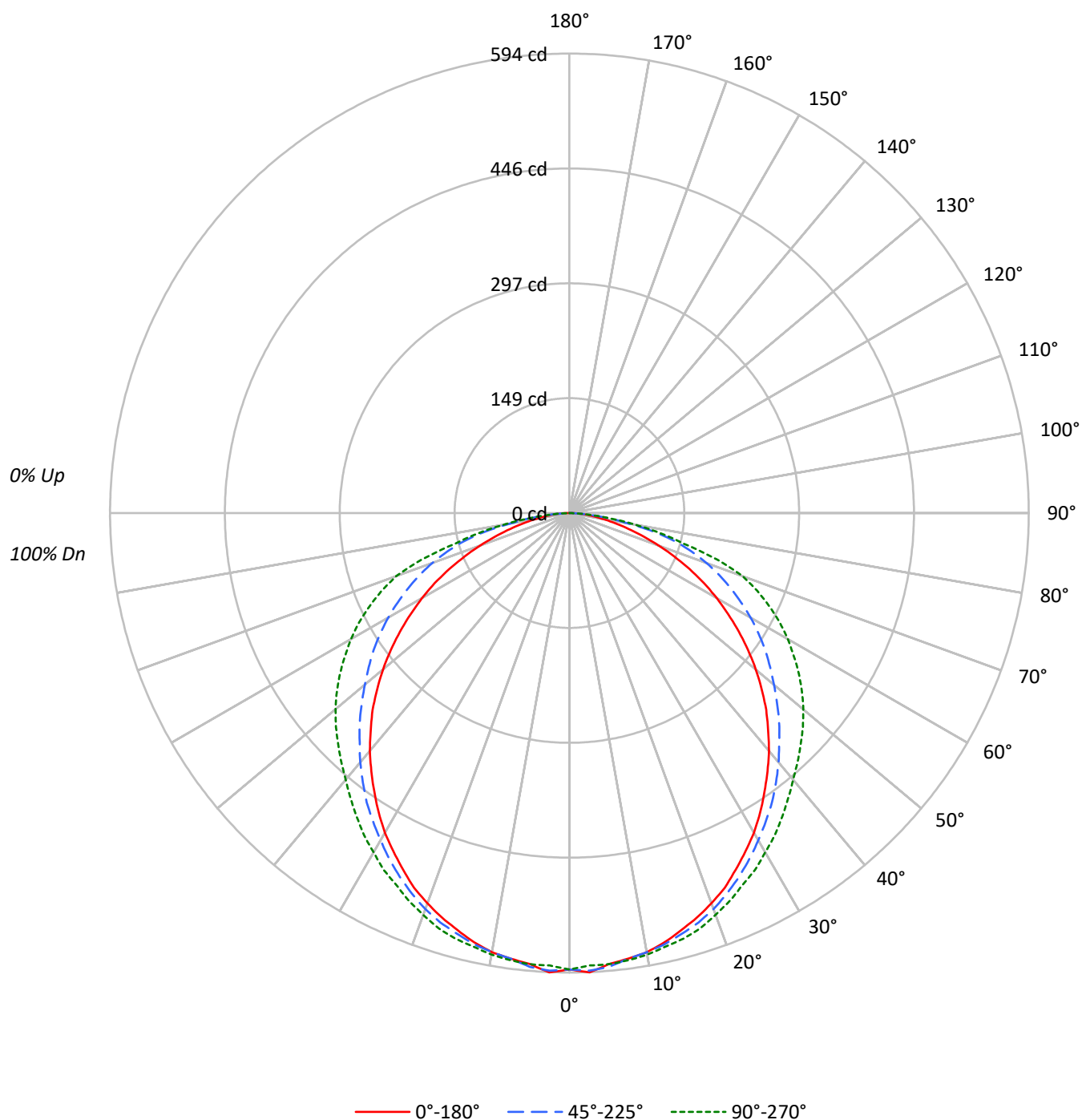
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260517

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P260517

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-3000K

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°	1587	1587	1587
5°	1581	1591	1581
10°	1575	1575	1584
15°	1555	1568	1587
20°	1538	1560	1583
25°	1510	1540	1574
30°	1482	1518	1574
35°	1445	1501	1575
40°	1410	1478	1581
45°	1369	1459	1610
50°	1317	1445	1653
55°	1254	1450	1699
60°	1183	1457	1755
65°	1091	1465	1817
70°	967	1482	1873
75°	821	1477	1595
80°	682	1189	1328
85°	593	800	766



TEST NUMBER: P260517

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.3
10°-20°	159.0	9.3
20°-30°	239.2	14.0
30°-40°	286.6	16.8
40°-50°	298.9	17.5
50°-60°	278.3	16.3
60°-70°	226.0	13.2
70°-80°	136.2	8.0
80°-90°	31.2	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°	453.9	26.5
0°-40°	740.5	43.3
0°-60°	1317.7	77.0
0°-90°	1711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	585	585	589	590	585	56
15°	558	561	563	566	570	158
25°	509	512	519	526	530	234
35°	440	446	457	470	479	275
45°	360	367	384	408	423	277
55°	267	279	309	343	362	239
65°	171	190	230	266	285	170
75°	79	105	142	151	153	85
85°	19	24	26	25	25	22
90°	0	0	0	0	0	



TEST NUMBER: P260517

CATALOG NUMBER: 22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.9	589.9	589.9	589.9	589.9
2.5°	594.4	593.3	592.1	588.8	585.4
5°	585.4	585.4	588.8	589.9	585.4
7.5°	580.9	580.9	580.9	585.4	583.1
10°	576.4	576.4	576.4	579.7	579.7
12.5°	568.5	569.6	570.7	571.8	574.1
15°	558.3	560.6	562.8	566.2	569.6
17.5°	548.2	550.4	554.9	558.3	562.8
20°	536.9	539.1	544.8	548.2	552.7
22.5°	524.5	525.6	532.4	536.9	542.5
25°	508.7	512.1	518.8	525.6	530.1
27.5°	492.9	496.3	504.2	513.2	520.0
30°	477.1	480.5	488.4	499.7	506.4
32.5°	459.1	463.6	472.6	486.1	494.0
35°	439.9	445.5	456.8	470.3	479.4
37.5°	420.7	426.3	438.8	455.7	464.7
40°	401.5	407.2	420.7	438.8	450.0
42.5°	380.1	386.9	401.5	423.0	436.5
45°	359.8	366.6	383.5	408.3	423.0
47.5°	337.2	345.1	364.3	392.5	409.4
50°	314.7	323.7	345.1	376.7	394.8
52.5°	291.0	301.1	327.1	359.8	379.0
55°	267.3	278.6	309.0	342.9	362.1
57.5°	243.6	256.0	289.9	324.8	344.0
60°	219.9	233.5	270.7	306.8	326.0
62.5°	196.3	210.9	250.4	286.5	306.8
65°	171.4	189.5	230.1	266.2	285.4
67.5°	146.6	168.1	209.8	244.8	262.8
70°	122.9	146.6	188.4	221.1	238.0
72.5°	100.4	125.2	165.8	194.0	200.8
75°	79.0	104.9	142.1	151.1	153.4
77.5°	60.9	84.6	112.8	115.0	120.7
80°	44.0	64.3	76.7	83.5	85.7
82.5°	30.5	44.0	50.8	51.9	53.0
85°	19.2	23.7	25.9	24.8	24.8
87.5°	10.2	9.0	7.9	5.6	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)