

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: P259340

Luminaire Tested: **22CZ-LD5-29-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2233.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

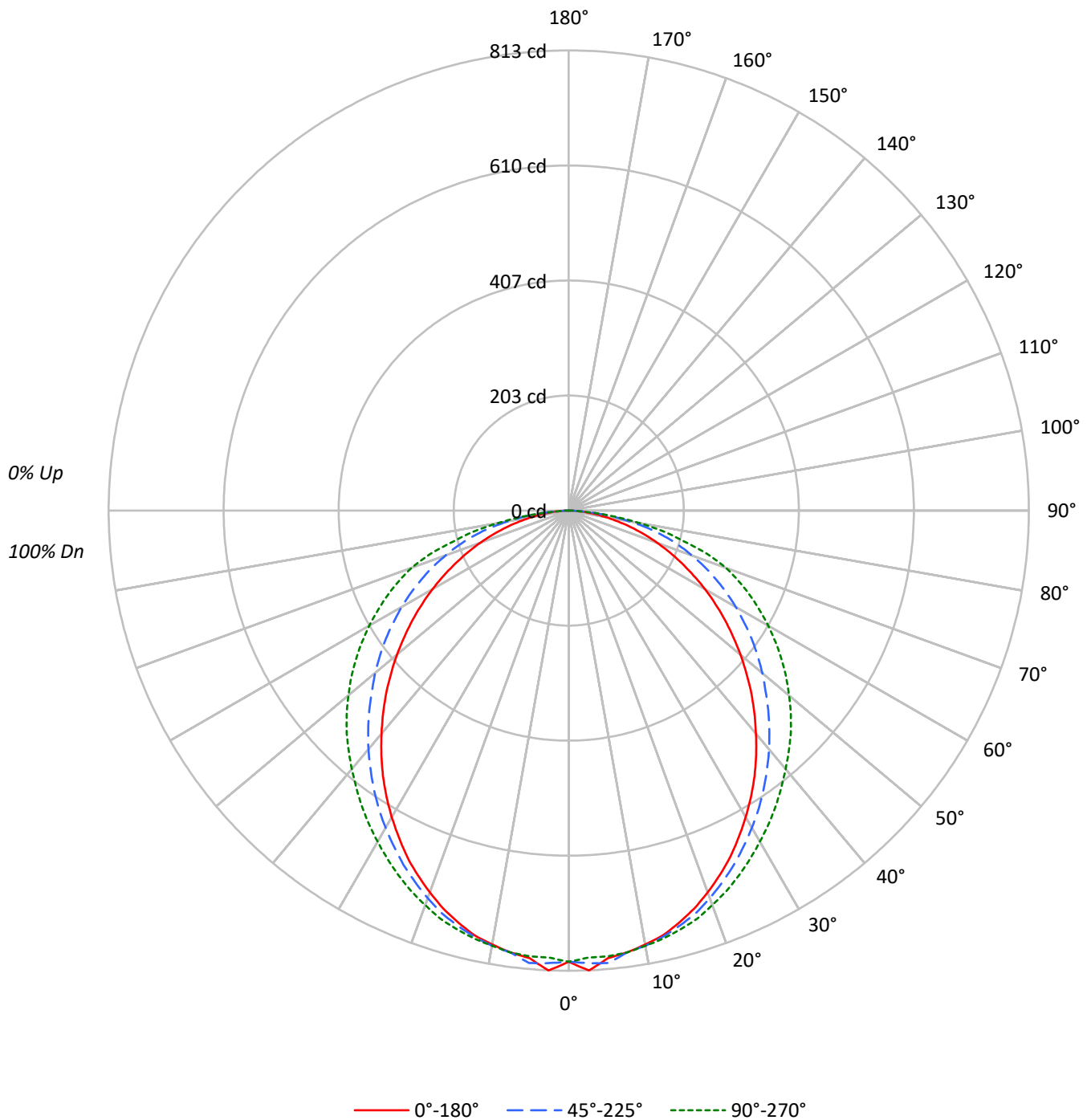
Input Watts (W): 20.739
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259340

CATALOG NUMBER: 22CZ-LD5-29-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P259340

CATALOG NUMBER: 22CZ-LD5-29-UNV-L92765-W2A1-U-2700K

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	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2145	2145	2145
5°	2144	2168	2135
10°	2128	2133	2133
15°	2099	2115	2133
20°	2056	2086	2124
25°	2005	2051	2112
30°	1944	2011	2099
35°	1880	1973	2094
40°	1808	1934	2094
45°	1736	1897	2112
50°	1659	1868	2128
55°	1579	1849	2155
60°	1496	1835	2192
65°	1403	1826	2247
70°	1307	1820	2324
75°	1185	1817	2201
80°	1026	1683	1953
85°	871	1275	1241



TEST NUMBER: P259340

CATALOG NUMBER: 22CZ-LD5-29-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.4
10°-20°	214.1	9.6
20°-30°	318.5	14.3
30°-40°	376.7	16.9
40°-50°	387.2	17.3
50°-60°	353.8	15.8
60°-70°	283.1	12.7
70°-80°	177.6	8.0
80°-90°	46.3	2.1
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°	608.3	27.2
0°-40°	985.0	44.1
0°-60°	1726.0	77.3
0°-90°	2233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	794	794	802	797	790	75
15°	754	755	759	763	766	212
25°	675	680	691	703	711	311
35°	572	580	600	623	637	358
45°	456	468	498	535	555	352
55°	337	353	394	438	459	301
65°	220	240	287	330	353	219
75°	114	136	175	201	212	121
85°	28	36	41	40	40	33
90°	0	0	0	0	0	



TEST NUMBER: P259340

CATALOG NUMBER: 22CZ-LD5-29-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.0	797.0	797.0	797.0	797.0
2.5°	813.3	810.1	800.3	793.8	790.5
5°	793.8	793.8	802.5	797.0	790.5
7.5°	787.3	787.3	787.3	803.5	787.3
10°	778.6	779.7	780.7	787.3	780.7
12.5°	768.8	768.8	771.0	773.1	774.2
15°	753.6	754.7	759.0	763.4	765.5
17.5°	737.3	740.6	746.0	751.4	755.8
20°	717.8	722.1	728.6	737.3	741.7
22.5°	697.1	701.5	710.2	719.9	727.5
25°	675.4	679.8	690.6	702.6	711.2
27.5°	650.4	655.9	668.9	685.2	693.9
30°	625.5	632.0	647.2	665.6	675.4
32.5°	599.4	607.0	624.4	645.0	657.0
35°	572.3	579.9	600.5	623.3	637.4
37.5°	544.0	552.7	575.5	601.6	616.8
40°	514.7	524.5	550.5	578.8	596.1
42.5°	485.4	496.2	524.5	558.1	575.5
45°	456.1	468.0	498.4	535.3	554.9
47.5°	425.7	439.8	471.3	512.5	532.1
50°	396.3	410.5	446.3	488.6	508.2
52.5°	365.9	382.2	420.2	463.7	484.3
55°	336.6	352.9	394.2	437.6	459.3
57.5°	307.3	323.6	367.0	411.5	433.3
60°	278.0	295.4	341.0	384.4	407.2
62.5°	248.7	267.1	313.8	358.3	380.1
65°	220.4	240.0	286.7	330.1	352.9
67.5°	193.3	213.9	259.5	301.9	324.7
70°	166.1	186.8	231.3	272.6	295.4
72.5°	140.1	160.7	204.1	241.1	258.4
75°	114.0	135.7	174.8	200.9	211.7
77.5°	89.0	110.8	144.4	161.8	173.7
80°	66.2	84.7	108.6	121.6	126.0
82.5°	45.6	60.8	76.0	79.3	81.4
85°	28.2	35.8	41.3	40.2	40.2
87.5°	13.0	14.1	11.9	8.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)