

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: P259516

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2759.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

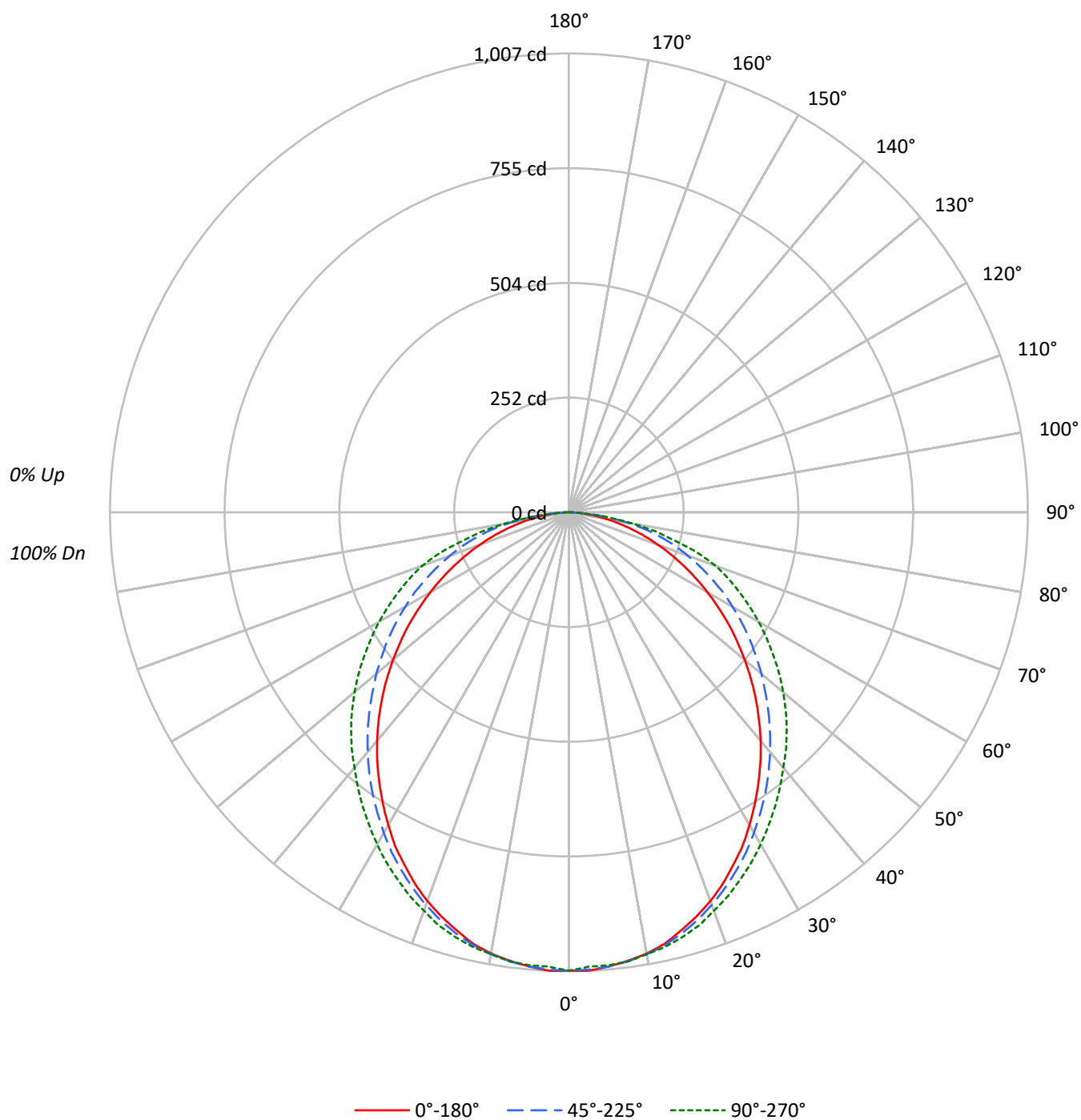
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259516

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P259516

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L92765-W2A1-U-6500K

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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2707	2707	2707
5°	2703	2703	2696
10°	2687	2690	2690
15°	2647	2666	2688
20°	2600	2626	2664
25°	2534	2577	2640
30°	2463	2524	2615
35°	2381	2468	2590
40°	2299	2411	2570
45°	2209	2355	2572
50°	2108	2308	2569
55°	2008	2269	2568
60°	1890	2232	2589
65°	1772	2202	2624
70°	1637	2179	2690
75°	1474	2164	2494
80°	1294	2013	2177
85°	1065	1513	1349



TEST NUMBER: P259516

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.4
10°-20°	269.8	9.8
20°-30°	400.8	14.5
30°-40°	471.7	17.1
40°-50°	480.9	17.4
50°-60°	433.7	15.7
60°-70°	341.7	12.4
70°-80°	210.7	7.6
80°-90°	54.7	2.0
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°	765.6	27.7
0°-40°	1237.3	44.8
0°-60°	2151.9	78.0
0°-90°	2759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1000	1002	1000	999	998	95
15°	950	954	957	962	965	268
25°	853	859	868	883	889	393
35°	725	733	751	775	788	453
45°	580	590	619	656	676	447
55°	428	443	484	527	547	382
65°	278	298	346	390	412	276
75°	142	166	208	232	240	151
85°	34	44	49	46	44	41
90°	0	0	0	0	0	



TEST NUMBER: P259516

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.8	1005.8	1005.8	1005.8	1005.8
2.5°	1007.1	1007.1	1004.5	1001.8	997.9
5°	1000.5	1001.8	1000.5	999.2	997.9
7.5°	992.6	993.9	993.9	993.9	993.9
10°	983.3	984.6	984.6	984.6	984.6
12.5°	970.0	971.4	972.7	974.0	976.7
15°	950.2	954.1	956.8	962.1	964.7
17.5°	930.3	934.3	938.2	944.9	950.2
20°	907.8	910.4	917.0	925.0	930.3
22.5°	882.6	886.6	893.2	903.8	911.7
25°	853.4	858.7	868.0	882.6	889.2
27.5°	825.6	829.6	841.5	857.4	866.7
30°	792.5	797.8	812.3	832.2	841.5
32.5°	759.3	766.0	781.9	804.4	815.0
35°	724.9	732.8	751.4	775.2	788.5
37.5°	690.4	698.4	719.6	746.1	760.7
40°	654.6	662.6	686.4	715.6	731.5
42.5°	617.5	626.8	653.3	686.4	705.0
45°	580.4	589.7	618.9	656.0	675.8
47.5°	542.0	552.6	584.4	625.5	645.4
50°	503.6	515.5	551.3	593.7	613.6
52.5°	465.1	478.4	516.8	560.6	581.8
55°	428.0	442.6	483.7	527.4	547.3
57.5°	388.3	405.5	449.2	491.6	514.2
60°	351.2	369.7	414.8	457.2	481.0
62.5°	314.1	333.9	381.7	424.1	446.6
65°	278.3	298.2	345.9	389.6	412.1
67.5°	242.5	265.0	311.4	355.2	377.7
70°	208.1	231.9	277.0	319.4	341.9
72.5°	174.9	198.8	243.8	283.6	296.8
75°	141.8	165.6	208.1	231.9	239.9
77.5°	111.3	133.8	170.9	185.5	196.1
80°	83.5	103.4	129.9	139.1	140.5
82.5°	57.0	74.2	90.1	91.4	90.1
85°	34.5	43.7	49.0	46.4	43.7
87.5°	15.9	17.2	15.9	10.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)