

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: P#

Luminaire Tested: **22CZ-LD5-29-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2957.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

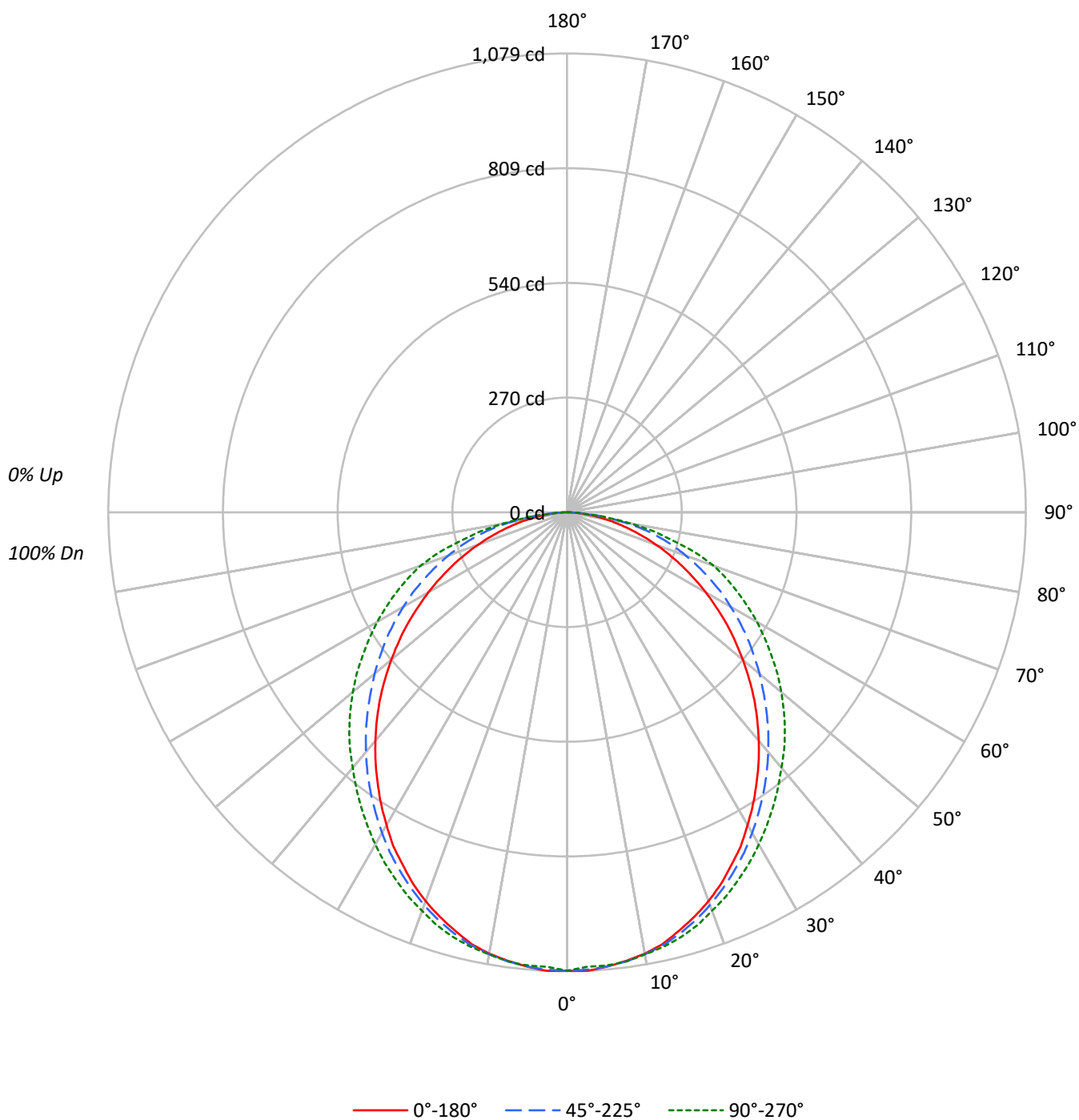
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L835-CD1-U

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°	2901	2901	2901
5°	2884	2879	2876
10°	2854	2848	2858
15°	2799	2804	2843
20°	2736	2744	2804
25°	2654	2674	2765
30°	2565	2599	2724
35°	2466	2521	2682
40°	2365	2440	2643
45°	2255	2358	2625
50°	2132	2281	2598
55°	2009	2209	2569
60°	1864	2131	2554
65°	1715	2050	2540
70°	1543	1955	2535
75°	1332	1834	2253
80°	1081	1540	1817
85°	725	898	921



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.4
10°-20°	289.2	9.8
20°-30°	429.5	14.5
30°-40°	505.6	17.1
40°-50°	515.4	17.4
50°-60°	464.9	15.7
60°-70°	366.2	12.4
70°-80°	225.8	7.6
80°-90°	58.6	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°	820.5	27.7
0°-40°	1326.1	44.8
0°-60°	2306.3	78.0
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1072	1074	1072	1071	1070	102
15°	1018	1023	1025	1031	1034	287
25°	915	920	930	946	953	421
35°	777	785	805	831	845	486
45°	622	632	663	703	724	480
55°	459	474	518	565	587	409
65°	298	320	371	418	442	295
75°	152	178	223	248	257	162
85°	37	47	53	50	47	43
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.0	1078.0	1078.0	1078.0	1078.0
2.5°	1079.4	1079.4	1076.6	1073.7	1069.5
5°	1072.3	1073.7	1072.3	1070.9	1069.5
7.5°	1063.8	1065.2	1065.2	1065.2	1065.2
10°	1053.8	1055.3	1055.3	1055.3	1055.3
12.5°	1039.6	1041.1	1042.5	1043.9	1046.7
15°	1018.3	1022.6	1025.4	1031.1	1034.0
17.5°	997.0	1001.3	1005.6	1012.7	1018.3
20°	972.9	975.7	982.8	991.4	997.0
22.5°	945.9	950.2	957.3	968.6	977.2
25°	914.7	920.3	930.3	945.9	953.0
27.5°	884.8	889.1	901.9	918.9	928.9
30°	849.3	855.0	870.6	891.9	901.9
32.5°	813.8	820.9	838.0	862.1	873.5
35°	776.9	785.4	805.3	830.9	845.1
37.5°	740.0	748.5	771.2	799.6	815.2
40°	701.6	710.1	735.7	767.0	784.0
42.5°	661.9	671.8	700.2	735.7	755.6
45°	622.1	632.0	663.3	703.0	724.3
47.5°	580.9	592.3	626.3	670.4	691.7
50°	539.7	552.5	590.8	636.3	657.6
52.5°	498.5	512.7	553.9	600.8	623.5
55°	458.8	474.4	518.4	565.3	586.6
57.5°	416.1	434.6	481.5	526.9	551.1
60°	376.4	396.3	444.5	490.0	515.6
62.5°	336.6	357.9	409.0	454.5	478.6
65°	298.3	319.6	370.7	417.6	441.7
67.5°	259.9	284.1	333.8	380.6	404.8
70°	223.0	248.5	296.8	342.3	366.4
72.5°	187.5	213.0	261.3	303.9	318.1
75°	152.0	177.5	223.0	248.5	257.1
77.5°	119.3	143.4	183.2	198.8	210.2
80°	89.5	110.8	139.2	149.1	150.5
82.5°	61.1	79.5	96.6	98.0	96.6
85°	36.9	46.9	52.6	49.7	46.9
87.5°	17.0	18.5	17.0	11.4	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)