

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-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 (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-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

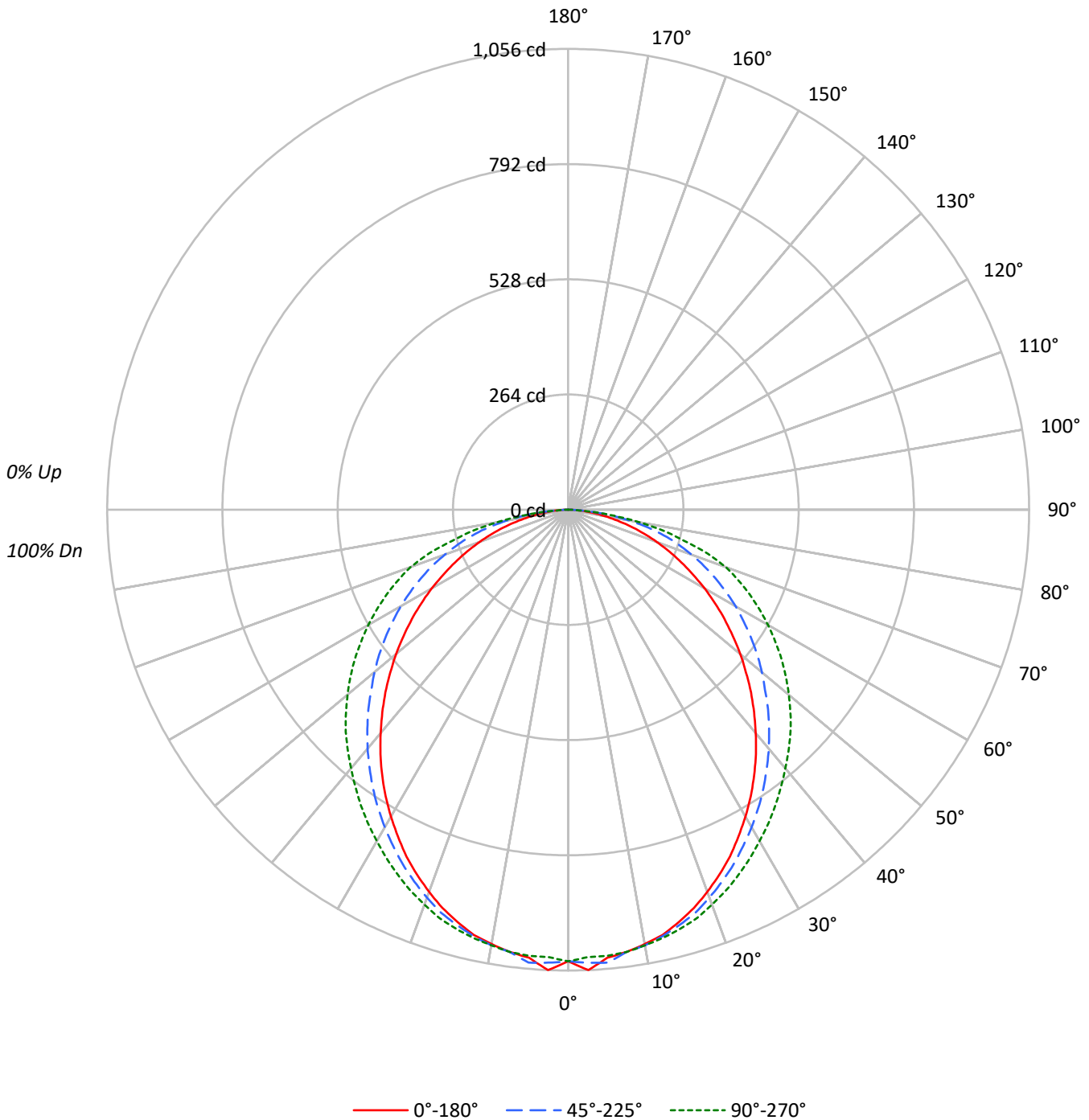
Lumens per Lamp: N/A
Luminaire Lumens: 2899.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

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-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2785	2785	2785
5°	2772	2797	2760
10°	2738	2736	2745
15°	2690	2694	2732
20°	2621	2641	2708
25°	2544	2577	2679
30°	2452	2508	2648
35°	2358	2440	2626
40°	2253	2370	2609
45°	2146	2300	2611
50°	2033	2237	2607
55°	1914	2180	2611
60°	1788	2123	2619
65°	1646	2058	2635
70°	1492	1978	2652
75°	1297	1867	2409
80°	1038	1560	1974
85°	721	915	1026



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.4
10°-20°	278.0	9.6
20°-30°	413.5	14.3
30°-40°	489.1	16.9
40°-50°	502.7	17.3
50°-60°	459.4	15.8
60°-70°	367.5	12.7
70°-80°	230.6	8.0
80°-90°	60.1	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°	789.7	27.2
0°-40°	1278.8	44.1
0°-60°	2240.9	77.3
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1030	1030	1042	1035	1026	98
15°	978	980	985	991	994	276
25°	877	882	897	912	923	403
35°	743	753	780	809	828	464
45°	592	608	647	695	720	457
55°	437	458	512	568	596	391
65°	286	312	372	429	458	284
75°	148	176	227	261	275	157
85°	37	46	54	52	52	42
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.8	1034.8	1034.8	1034.8	1034.8
2.5°	1055.9	1051.7	1039.0	1030.5	1026.3
5°	1030.5	1030.5	1041.8	1034.8	1026.3
7.5°	1022.1	1022.1	1022.1	1043.2	1022.1
10°	1010.8	1012.2	1013.6	1022.1	1013.6
12.5°	998.1	998.1	1000.9	1003.7	1005.1
15°	978.4	979.8	985.4	991.0	993.9
17.5°	957.2	961.4	968.5	975.5	981.2
20°	931.8	937.5	945.9	957.2	962.9
22.5°	905.1	910.7	922.0	934.7	944.5
25°	876.9	882.5	896.6	912.1	923.4
27.5°	844.4	851.5	868.4	889.5	900.8
30°	812.0	820.5	840.2	864.2	876.9
32.5°	778.2	788.0	810.6	837.4	852.9
35°	742.9	752.8	779.6	809.2	827.5
37.5°	706.3	717.6	747.2	781.0	800.7
40°	668.2	680.9	714.7	751.4	773.9
42.5°	630.2	644.3	680.9	724.6	747.2
45°	592.1	607.6	647.1	695.0	720.4
47.5°	552.6	570.9	611.8	665.4	690.8
50°	514.6	532.9	579.4	634.4	659.8
52.5°	475.1	496.2	545.6	602.0	628.7
55°	437.0	458.2	511.7	568.1	596.3
57.5°	399.0	420.1	476.5	534.3	562.5
60°	360.9	383.4	442.7	499.0	528.7
62.5°	322.8	346.8	407.4	465.2	493.4
65°	286.2	311.6	372.2	428.6	458.2
67.5°	250.9	277.7	336.9	391.9	421.5
70°	215.7	242.5	300.3	353.8	383.4
72.5°	181.9	208.6	265.0	313.0	335.5
75°	148.0	176.2	227.0	260.8	274.9
77.5°	115.6	143.8	187.5	210.1	225.6
80°	86.0	110.0	141.0	157.9	163.5
82.5°	59.2	78.9	98.7	102.9	105.7
85°	36.7	46.5	53.6	52.2	52.2
87.5°	16.9	18.3	15.5	11.3	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)