

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: **14CZ-LD5-29-S-UNV-L840-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 (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-S-UNV-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3035.9 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

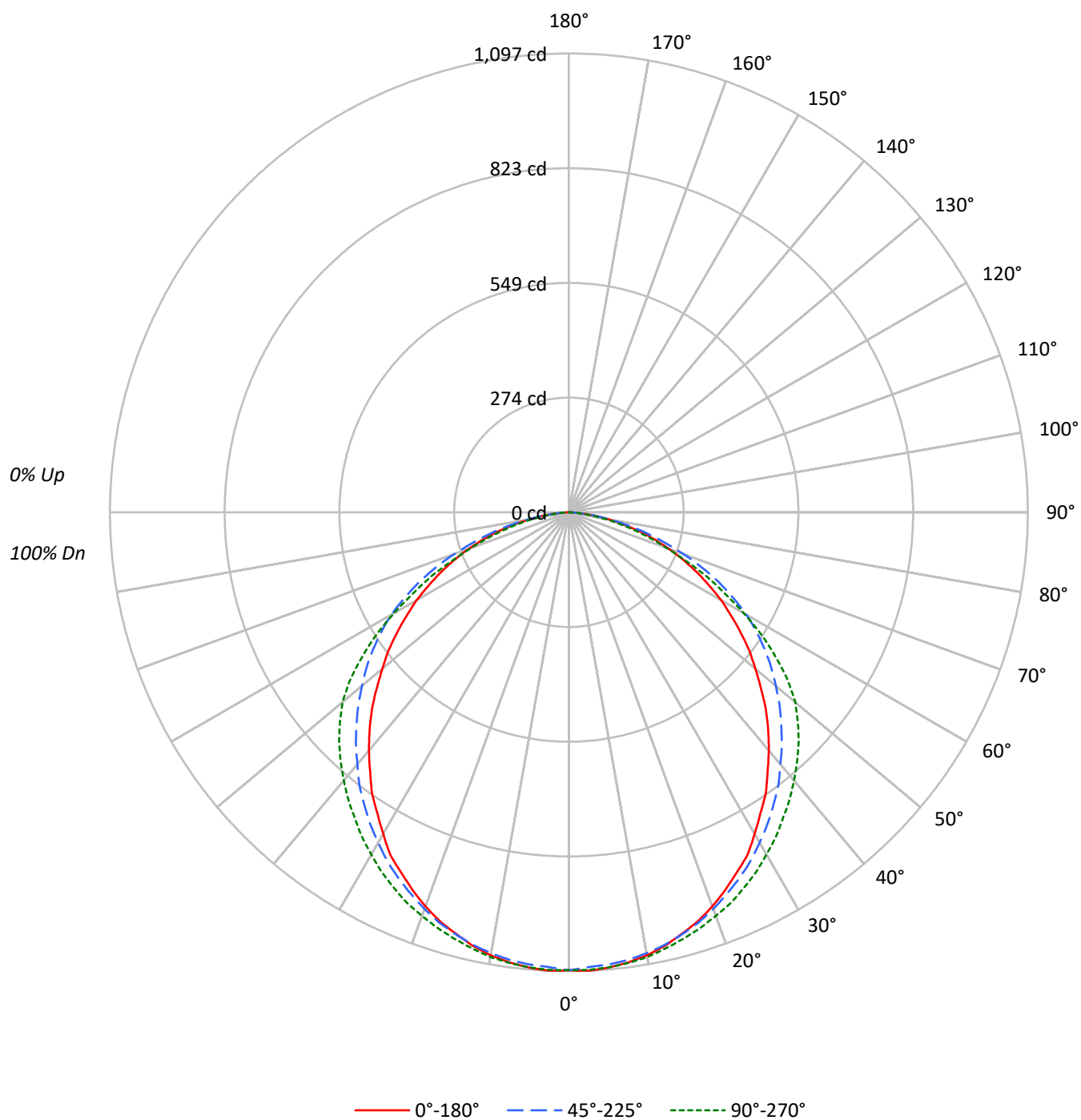
Input Watts (W): 24.53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L840-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	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	66	88	78	71	65		75	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	48		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		47	40	36
8	61	47	39	33	59	46	38	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	29		42	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	27		37	31	26		37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2946	2946	2946
5°	2945	2909	2924
10°	2925	2879	2899
15°	2887	2843	2864
20°	2845	2800	2836
25°	2787	2751	2809
30°	2720	2696	2775
35°	2648	2639	2739
40°	2558	2571	2713
45°	2472	2508	2687
50°	2364	2444	2642
55°	2272	2380	2480
60°	2168	2291	2215
65°	2031	2114	1903
70°	1871	1838	1533
75°	1650	1499	1193
80°	1270	1042	797
85°	802	445	304



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.4
10°-20°	295.9	9.7
20°-30°	446.4	14.7
30°-40°	535.3	17.6
40°-50°	555.5	18.3
50°-60°	501.5	16.5
60°-70°	365.2	12.0
70°-80°	191.6	6.3
80°-90°	41.0	1.3
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°	845.9	27.9
0°-40°	1381.2	45.5
0°-60°	2438.1	80.3
0°-90°	3035.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1093	1090	1085	1093	1092	104
15°	1043	1043	1045	1056	1056	294
25°	950	955	965	986	990	438
35°	820	828	853	885	892	512
45°	666	680	717	762	777	513
55°	502	519	571	606	604	448
65°	336	356	395	377	363	333
75°	174	198	192	166	158	182
85°	33	40	29	22	21	43
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1096.9	1094.0	1088.2	1095.5	1094.8
5°	1092.6	1090.4	1085.3	1092.6	1091.9
7.5°	1085.3	1083.9	1079.5	1087.5	1086.8
10°	1075.2	1073.0	1070.1	1078.8	1079.5
12.5°	1061.4	1060.6	1059.2	1068.6	1067.9
15°	1043.2	1043.2	1044.7	1056.3	1055.6
17.5°	1025.1	1025.1	1028.7	1041.8	1042.5
20°	1002.6	1004.0	1009.1	1025.1	1026.5
22.5°	977.1	978.6	987.3	1007.6	1011.3
25°	949.6	954.6	964.8	985.9	990.2
27.5°	924.2	924.9	940.1	963.4	969.2
30°	887.9	898.0	911.8	938.7	944.5
32.5°	852.3	862.4	883.5	912.5	920.5
35°	820.3	828.3	853.0	885.0	892.2
37.5°	780.4	793.5	822.5	855.9	866.1
40°	743.4	755.0	786.2	824.0	837.0
42.5°	704.9	718.0	753.6	794.2	807.3
45°	665.7	680.2	717.3	762.3	776.8
47.5°	622.9	641.0	683.1	728.9	741.9
50°	581.5	600.4	645.4	693.3	706.4
52.5°	543.7	560.4	609.8	654.1	659.9
55°	501.6	519.1	571.3	605.5	604.0
57.5°	459.5	479.1	531.4	552.5	546.7
60°	420.3	438.5	490.8	495.1	482.8
62.5°	376.8	397.8	442.1	435.6	420.3
65°	336.1	356.4	394.9	376.8	363.0
67.5°	294.7	316.5	344.1	317.2	301.3
70°	254.1	280.2	290.4	261.3	248.3
72.5°	212.7	240.3	239.6	212.0	201.1
75°	173.5	198.2	191.7	165.5	157.5
77.5°	132.1	156.8	144.5	124.9	117.6
80°	93.6	116.9	100.9	85.7	80.6
82.5°	63.9	77.7	63.2	50.1	47.9
85°	33.4	39.9	29.0	22.5	21.1
87.5°	12.3	11.6	10.2	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)