

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-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-UNV-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

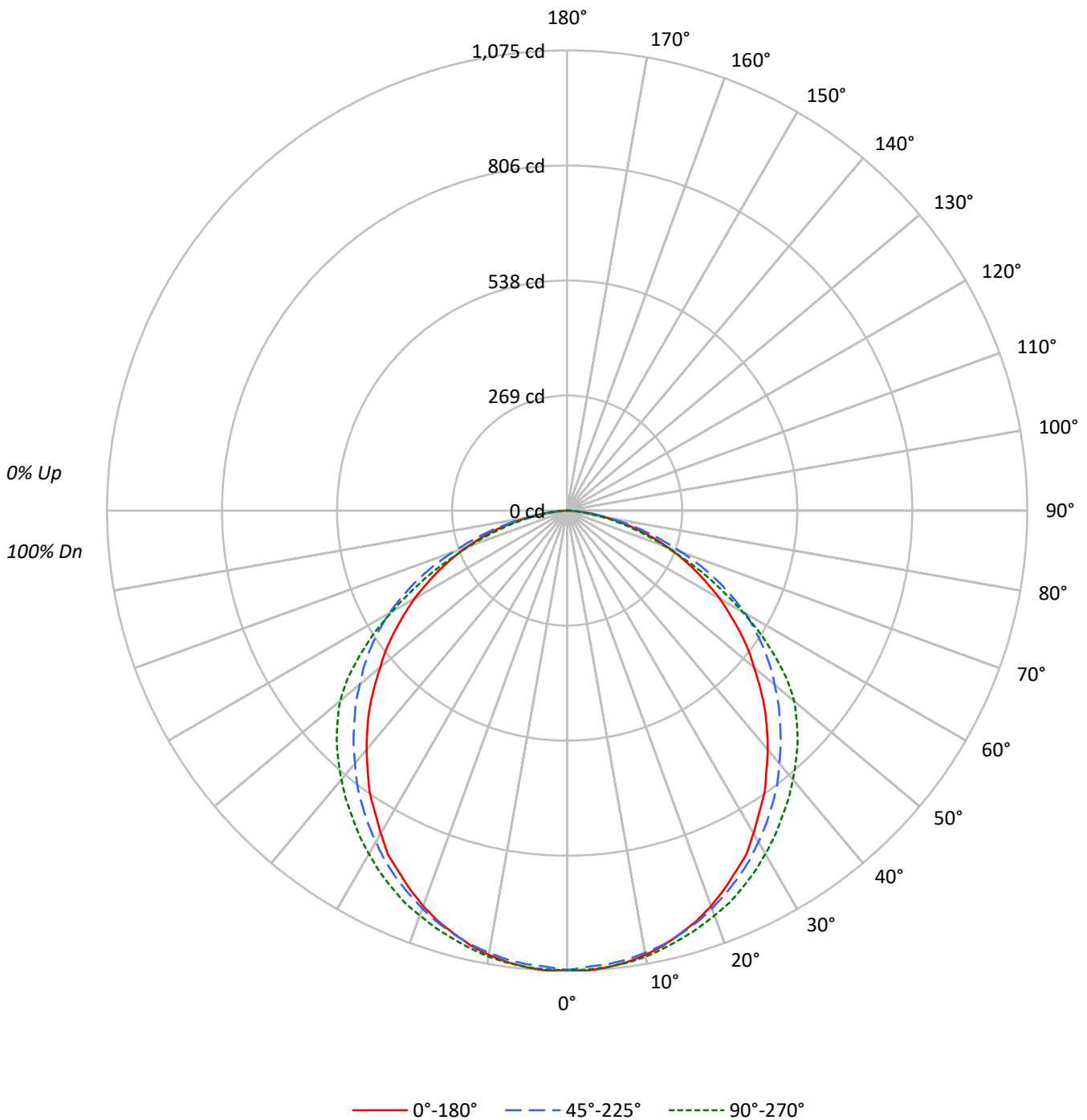
Lumens per Lamp: N/A
Luminaire Lumens: 2976.4 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2888	2888	2888
5°	2887	2852	2866
10°	2868	2823	2842
15°	2830	2787	2808
20°	2789	2745	2781
25°	2732	2697	2754
30°	2666	2643	2720
35°	2597	2587	2685
40°	2508	2521	2659
45°	2423	2459	2635
50°	2318	2396	2590
55°	2228	2333	2431
60°	2126	2245	2171
65°	1991	2073	1866
70°	1834	1802	1502
75°	1618	1469	1169
80°	1246	1021	781
85°	785	438	297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.4
10°-20°	290.1	9.7
20°-30°	437.7	14.7
30°-40°	524.8	17.6
40°-50°	544.6	18.3
50°-60°	491.6	16.5
60°-70°	358.1	12.0
70°-80°	187.8	6.3
80°-90°	40.2	1.4
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°	829.3	27.9
0°-40°	1354.1	45.5
0°-60°	2390.3	80.3
0°-90°	2976.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1071	1069	1064	1071	1070	102
15°	1023	1023	1024	1036	1035	289
25°	931	936	946	966	971	429
35°	804	812	836	868	875	502
45°	653	667	703	747	762	502
55°	492	509	560	594	592	440
65°	330	350	387	369	356	326
75°	170	194	188	162	154	179
85°	33	39	28	22	21	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1075.4	1072.6	1066.9	1074.0	1073.3
5°	1071.2	1069.0	1064.0	1071.2	1070.4
7.5°	1064.0	1062.6	1058.3	1066.2	1065.5
10°	1054.1	1051.9	1049.1	1057.6	1058.3
12.5°	1040.6	1039.8	1038.4	1047.7	1047.0
15°	1022.8	1022.8	1024.2	1035.6	1034.9
17.5°	1005.0	1005.0	1008.5	1021.3	1022.0
20°	982.9	984.3	989.3	1005.0	1006.4
22.5°	958.0	959.4	968.0	987.9	991.4
25°	930.9	935.9	945.9	966.5	970.8
27.5°	906.0	906.7	921.7	944.5	950.2
30°	870.4	880.4	893.9	920.3	926.0
32.5°	835.6	845.5	866.2	894.6	902.5
35°	804.3	812.1	836.3	867.6	874.7
37.5°	765.1	777.9	806.4	839.1	849.1
40°	728.8	740.2	770.8	807.8	820.6
42.5°	691.1	703.9	738.8	778.6	791.4
45°	652.7	666.9	703.2	747.3	761.6
47.5°	610.7	628.5	669.7	714.6	727.4
50°	570.1	588.6	632.7	679.7	692.5
52.5°	533.1	549.5	597.9	641.3	647.0
55°	491.8	508.9	560.1	593.6	592.2
57.5°	450.5	469.7	521.0	541.6	535.9
60°	412.1	429.9	481.1	485.4	473.3
62.5°	369.4	390.0	433.4	427.0	412.1
65°	329.5	349.5	387.2	369.4	355.9
67.5°	289.0	310.3	337.4	311.0	295.4
70°	249.1	274.7	284.7	256.2	243.4
72.5°	208.5	235.6	234.9	207.8	197.1
75°	170.1	194.3	187.9	162.3	154.4
77.5°	129.5	153.7	141.6	122.4	115.3
80°	91.8	114.6	98.9	84.0	79.0
82.5°	62.6	76.2	61.9	49.1	47.0
85°	32.7	39.1	28.5	22.1	20.6
87.5°	12.1	11.4	10.0	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)