

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-LD5-44-UNV-L850-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-LD5-44-UNV-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

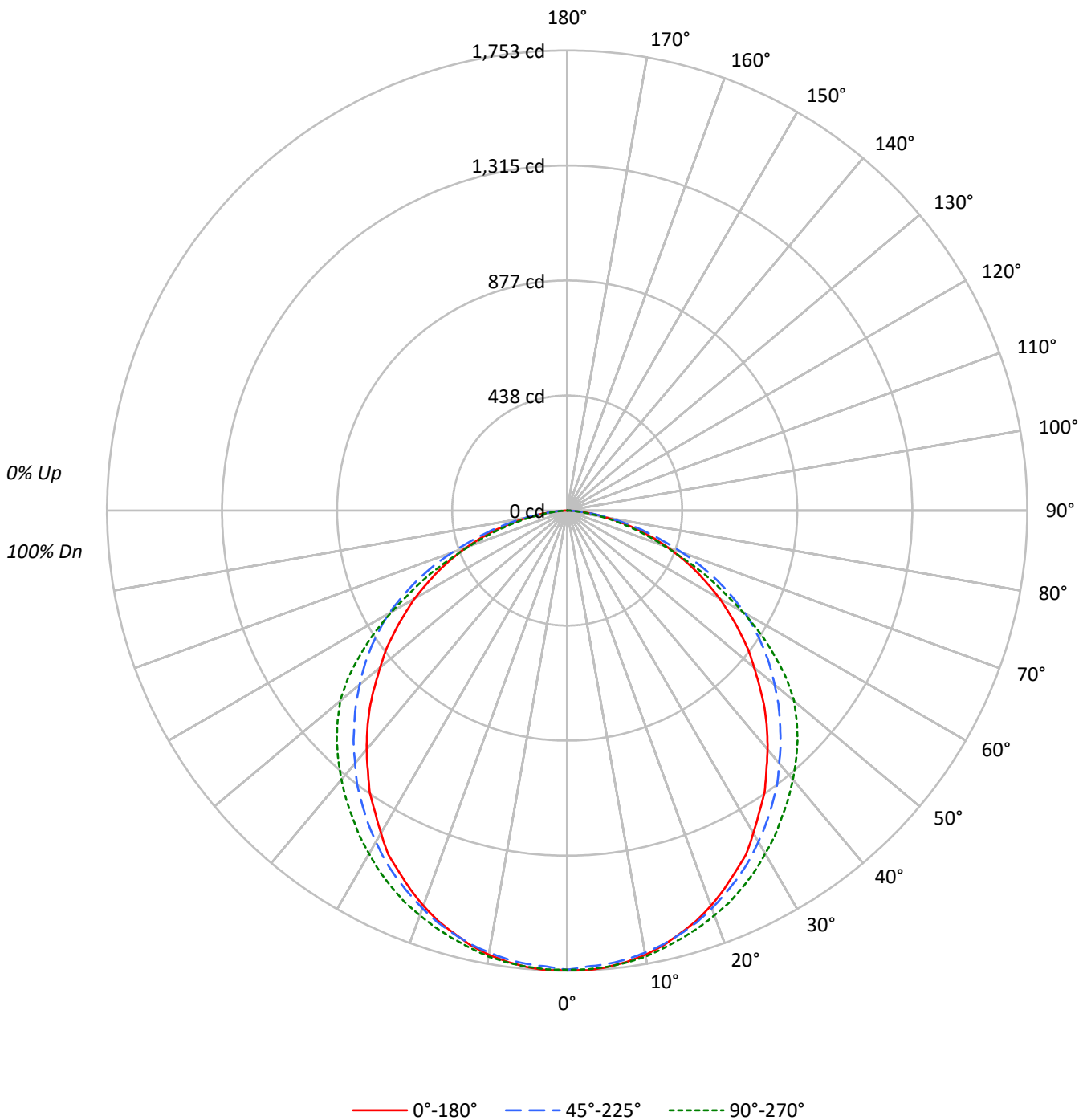
Lumens per Lamp: N/A
Luminaire Lumens: 4851.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (A_{in}): 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°	4708	4708	4708
5°	4706	4649	4672
10°	4674	4601	4632
15°	4613	4543	4577
20°	4547	4474	4533
25°	4453	4397	4489
30°	4346	4308	4434
35°	4232	4217	4377
40°	4087	4109	4335
45°	3950	4008	4294
50°	3777	3906	4222
55°	3631	3803	3962
60°	3465	3660	3539
65°	3246	3378	3041
70°	2989	2937	2449
75°	2637	2395	1906
80°	2032	1665	1274
85°	1282	713	484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	3.4
10°-20°	472.9	9.7
20°-30°	713.4	14.7
30°-40°	855.4	17.6
40°-50°	887.7	18.3
50°-60°	801.4	16.5
60°-70°	583.6	12.0
70°-80°	306.1	6.3
80°-90°	65.5	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°	1351.8	27.9
0°-40°	2207.1	45.5
0°-60°	3896.2	80.3
0°-90°	4851.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4851.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1746	1742	1734	1746	1745	166
15°	1667	1667	1669	1688	1687	470
25°	1517	1526	1542	1575	1582	700
35°	1311	1324	1363	1414	1426	818
45°	1064	1087	1146	1218	1241	819
55°	802	830	913	968	965	717
65°	537	570	631	602	580	532
75°	277	317	306	264	252	292
85°	53	64	46	36	34	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.4	1749.4	1749.4	1749.4	1749.4
2.5°	1752.9	1748.3	1739.0	1750.6	1749.4
5°	1746.0	1742.5	1734.4	1746.0	1744.8
7.5°	1734.4	1732.0	1725.1	1737.8	1736.7
10°	1718.1	1714.6	1710.0	1723.9	1725.1
12.5°	1696.1	1694.9	1692.6	1707.7	1706.5
15°	1667.1	1667.1	1669.4	1688.0	1686.8
17.5°	1638.1	1638.1	1643.9	1664.8	1665.9
20°	1602.1	1604.4	1612.5	1638.1	1640.4
22.5°	1561.5	1563.8	1577.7	1610.2	1616.0
25°	1517.4	1525.5	1541.8	1575.4	1582.4
27.5°	1476.8	1478.0	1502.3	1539.5	1548.7
30°	1418.8	1435.1	1457.1	1500.0	1509.3
32.5°	1362.0	1378.2	1411.8	1458.3	1471.0
35°	1310.9	1323.7	1363.1	1414.2	1425.8
37.5°	1247.1	1268.0	1314.4	1367.8	1384.0
40°	1187.9	1206.5	1256.4	1316.7	1337.6
42.5°	1126.5	1147.3	1204.2	1269.2	1290.0
45°	1063.8	1087.0	1146.2	1218.1	1241.3
47.5°	995.4	1024.4	1091.7	1164.7	1185.6
50°	929.2	959.4	1031.3	1107.9	1128.8
52.5°	868.9	895.6	974.5	1045.3	1054.5
55°	801.6	829.5	913.0	967.5	965.2
57.5°	734.3	765.7	849.2	882.8	873.6
60°	671.7	700.7	784.2	791.2	771.5
62.5°	602.1	635.7	706.5	696.1	671.7
65°	537.1	569.6	631.1	602.1	580.1
67.5°	471.0	505.8	549.9	507.0	481.4
70°	406.0	447.8	464.0	417.6	396.8
72.5°	339.9	384.0	382.8	338.8	321.3
75°	277.3	316.7	306.3	264.5	251.7
77.5°	211.1	250.6	230.9	199.5	187.9
80°	149.7	186.8	161.3	136.9	128.8
82.5°	102.1	124.1	100.9	80.0	76.6
85°	53.4	63.8	46.4	36.0	33.6
87.5°	19.7	18.6	16.2	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)