

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-LD5-39-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-LD5-39-UNV-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

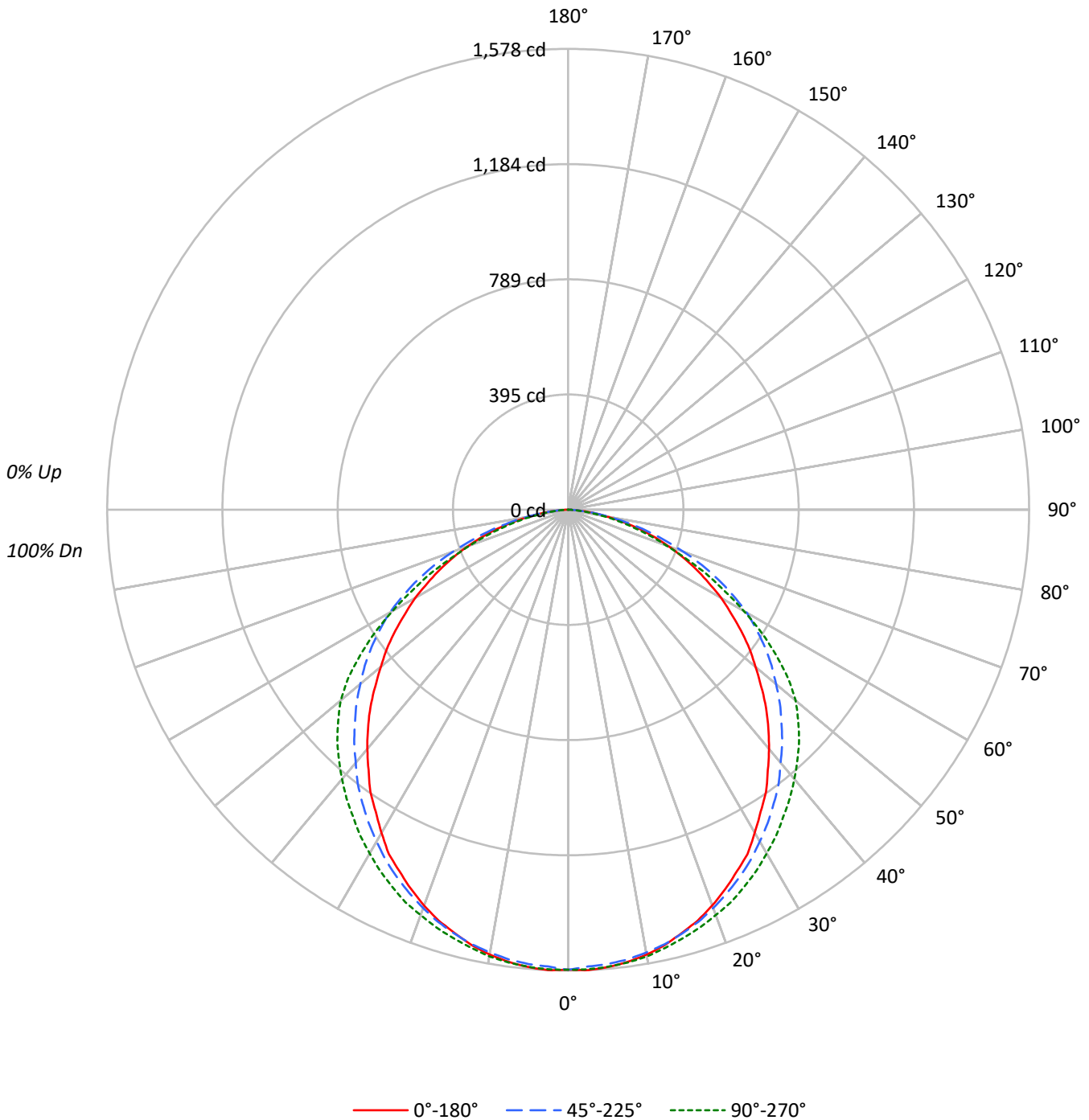
Lumens per Lamp: N/A
Luminaire Lumens: 4368.1 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.67
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°	4239	4239	4239
5°	4237	4186	4207
10°	4209	4143	4171
15°	4154	4091	4121
20°	4094	4028	4081
25°	4010	3959	4042
30°	3913	3879	3992
35°	3811	3797	3941
40°	3680	3699	3903
45°	3556	3608	3867
50°	3401	3517	3802
55°	3270	3425	3568
60°	3120	3296	3186
65°	2923	3041	2738
70°	2692	2645	2205
75°	2374	2156	1716
80°	1828	1499	1146
85°	1153	642	437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.4
10°-20°	425.7	9.7
20°-30°	642.3	14.7
30°-40°	770.2	17.6
40°-50°	799.2	18.3
50°-60°	721.5	16.5
60°-70°	525.5	12.0
70°-80°	275.6	6.3
80°-90°	59.0	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°	1217.1	27.9
0°-40°	1987.3	45.5
0°-60°	3508.0	80.3
0°-90°	4368.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1572	1569	1562	1572	1571	149
15°	1501	1501	1503	1520	1519	424
25°	1366	1374	1388	1418	1425	630
35°	1180	1192	1227	1273	1284	736
45°	958	979	1032	1097	1118	737
55°	722	747	822	871	869	645
65°	484	513	568	542	522	479
75°	250	285	276	238	227	263
85°	48	57	42	32	30	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.2	1575.2	1575.2	1575.2	1575.2
2.5°	1578.3	1574.1	1565.8	1576.2	1575.2
5°	1572.0	1568.9	1561.6	1572.0	1571.0
7.5°	1561.6	1559.5	1553.2	1564.7	1563.7
10°	1547.0	1543.8	1539.7	1552.2	1553.2
12.5°	1527.1	1526.1	1524.0	1537.6	1536.5
15°	1501.0	1501.0	1503.1	1519.8	1518.8
17.5°	1474.9	1474.9	1480.1	1498.9	1500.0
20°	1442.5	1444.6	1451.9	1474.9	1477.0
22.5°	1406.0	1408.0	1420.6	1449.8	1455.0
25°	1366.3	1373.6	1388.2	1418.5	1424.8
27.5°	1329.7	1330.7	1352.7	1386.1	1394.5
30°	1277.5	1292.1	1311.9	1350.6	1359.0
32.5°	1226.3	1240.9	1271.2	1313.0	1324.5
35°	1180.3	1191.8	1227.3	1273.3	1283.7
37.5°	1122.9	1141.7	1183.5	1231.5	1246.1
40°	1069.6	1086.3	1131.2	1185.6	1204.4
42.5°	1014.3	1033.1	1084.2	1142.7	1161.5
45°	957.8	978.7	1032.0	1096.8	1117.7
47.5°	896.2	922.3	982.9	1048.7	1067.5
50°	836.7	863.8	928.6	997.5	1016.3
52.5°	782.4	806.4	877.4	941.1	949.5
55°	721.8	746.8	822.1	871.1	869.1
57.5°	661.2	689.4	764.6	794.9	786.5
60°	604.8	630.9	706.1	712.4	694.6
62.5°	542.1	572.4	636.1	626.7	604.8
65°	483.6	512.9	568.2	542.1	522.3
67.5°	424.1	455.4	495.1	456.5	433.5
70°	365.6	403.2	417.8	376.0	357.2
72.5°	306.1	345.7	344.7	305.0	289.3
75°	249.6	285.2	275.8	238.2	226.7
77.5°	190.1	225.6	207.9	179.7	169.2
80°	134.7	168.2	145.2	123.3	115.9
82.5°	91.9	111.8	90.9	72.1	68.9
85°	48.0	57.4	41.8	32.4	30.3
87.5°	17.8	16.7	14.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)