

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: P345177

Luminaire Tested: **14CZ-44-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-44-L850-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4261.2 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

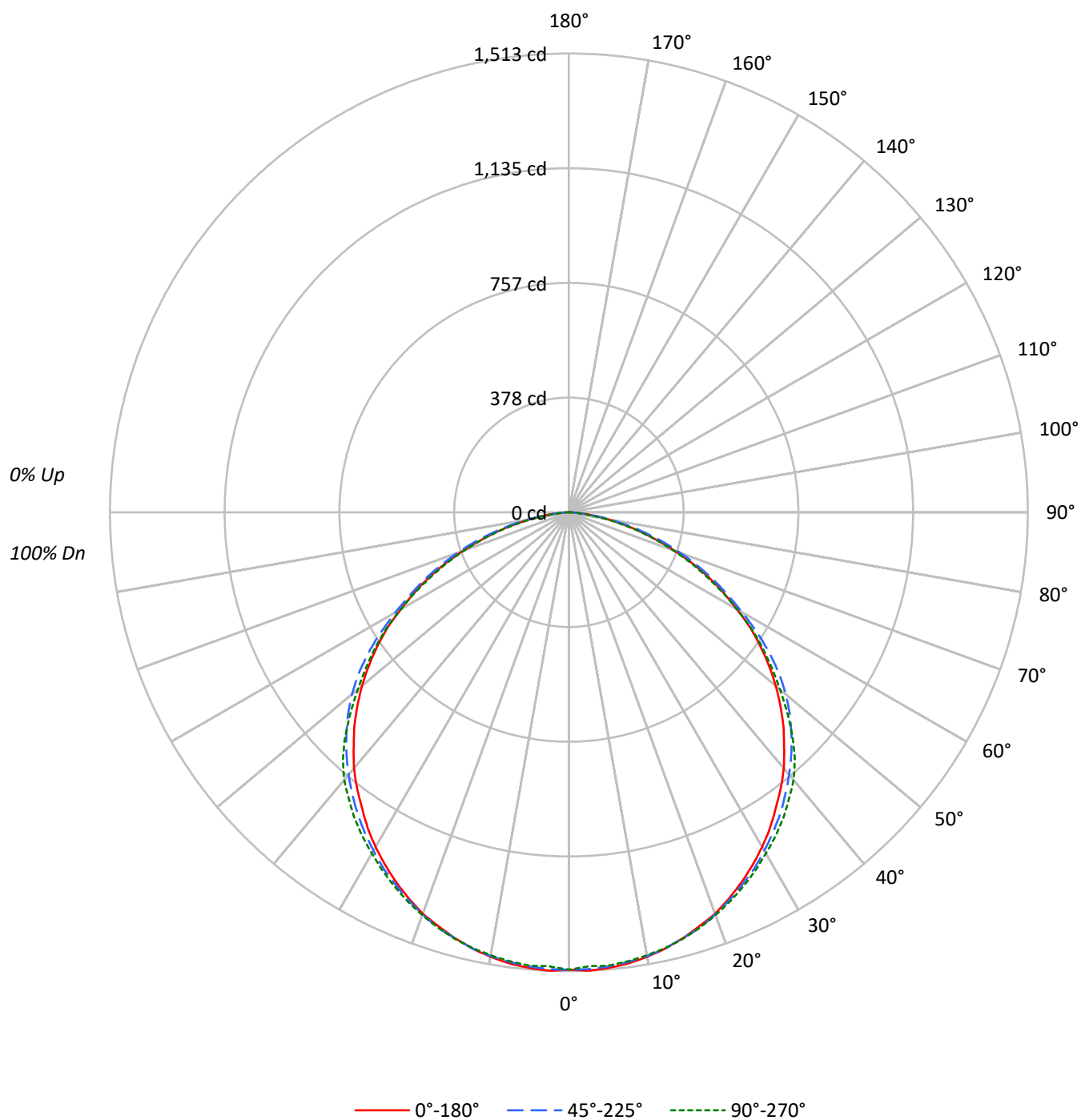
Input Watts (W): 41.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345177

CATALOG NUMBER: 14CZ-44-L850-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345177

CATALOG NUMBER: 14CZ-44-L850-HRP-UNV-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	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	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	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59		
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	41	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	46	40	36	34		
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30		
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4058	4058	4058
5°	4073	4060	4053
10°	4066	4059	4052
15°	4048	4048	4055
20°	4033	4040	4048
25°	3997	4019	4041
30°	3959	4005	4036
35°	3907	3989	4046
40°	3872	3968	4047
45°	3807	3949	3968
50°	3729	3906	3802
55°	3619	3782	3654
60°	3442	3549	3442
65°	3248	3343	3185
70°	2917	3074	2878
75°	2510	2717	2458
80°	1967	2122	1774
85°	1383	1229	1074



TEST NUMBER: P345177

CATALOG NUMBER: 14CZ-44-L850-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.3
10°-20°	410.0	9.6
20°-30°	622.9	14.6
30°-40°	756.6	17.8
40°-50°	790.3	18.5
50°-60°	702.9	16.5
60°-70°	513.0	12.0
70°-80°	267.6	6.3
80°-90°	55.3	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°	1175.6	27.6
0°-40°	1932.2	45.3
0°-60°	3425.4	80.4
0°-90°	4261.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1508	1498	1503	1500	1500	143
15°	1453	1446	1453	1456	1456	410
25°	1346	1341	1354	1356	1361	620
35°	1189	1189	1214	1222	1232	745
45°	1000	1003	1038	1045	1043	771
55°	771	786	806	784	779	688
65°	510	538	525	510	500	502
75°	241	264	261	244	236	257
85°	45	50	40	35	35	56
90°	0	0	0	0	0	



TEST NUMBER: P345177

CATALOG NUMBER: 14CZ-44-L850-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.9	1507.9	1507.9	1507.9	1507.9
2.5°	1512.9	1502.9	1507.9	1505.4	1498.0
5°	1507.9	1498.0	1502.9	1500.5	1500.5
7.5°	1500.5	1490.5	1495.5	1493.0	1493.0
10°	1488.0	1478.1	1485.5	1483.0	1483.0
12.5°	1473.1	1463.1	1473.1	1470.6	1470.6
15°	1453.2	1445.7	1453.2	1455.7	1455.7
17.5°	1430.8	1425.8	1435.8	1435.8	1435.8
20°	1408.4	1400.9	1410.9	1410.9	1413.4
22.5°	1378.5	1371.1	1383.5	1381.0	1388.5
25°	1346.2	1341.2	1353.6	1356.1	1361.1
27.5°	1311.3	1308.9	1323.8	1326.3	1331.3
30°	1274.0	1269.0	1288.9	1291.4	1298.9
32.5°	1234.2	1234.2	1251.6	1256.6	1266.6
35°	1189.4	1189.4	1214.3	1221.8	1231.7
37.5°	1147.1	1147.1	1172.0	1184.4	1191.9
40°	1102.3	1102.3	1129.7	1142.1	1152.1
42.5°	1050.1	1052.6	1084.9	1097.3	1102.3
45°	1000.3	1002.8	1037.6	1045.1	1042.6
47.5°	945.6	953.0	987.9	982.9	975.4
50°	890.8	898.3	933.1	913.2	908.2
52.5°	831.1	843.5	873.4	846.0	843.5
55°	771.4	786.3	806.2	783.8	778.8
57.5°	709.2	729.1	734.1	719.1	714.1
60°	639.5	666.9	659.4	647.0	639.5
62.5°	574.8	599.7	589.7	577.3	569.8
65°	510.1	537.5	525.0	510.1	500.2
67.5°	440.4	472.8	457.9	440.4	433.0
70°	370.8	398.1	390.7	373.2	365.8
72.5°	303.6	328.5	326.0	308.6	301.1
75°	241.4	263.8	261.3	243.9	236.4
77.5°	181.6	204.0	196.6	181.6	174.2
80°	126.9	146.8	136.9	121.9	114.5
82.5°	82.1	92.1	82.1	69.7	64.7
85°	44.8	49.8	39.8	34.8	34.8
87.5°	14.9	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)