

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: P345173

Luminaire Tested: **14CZ-39-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345173
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-39-L850-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3837.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

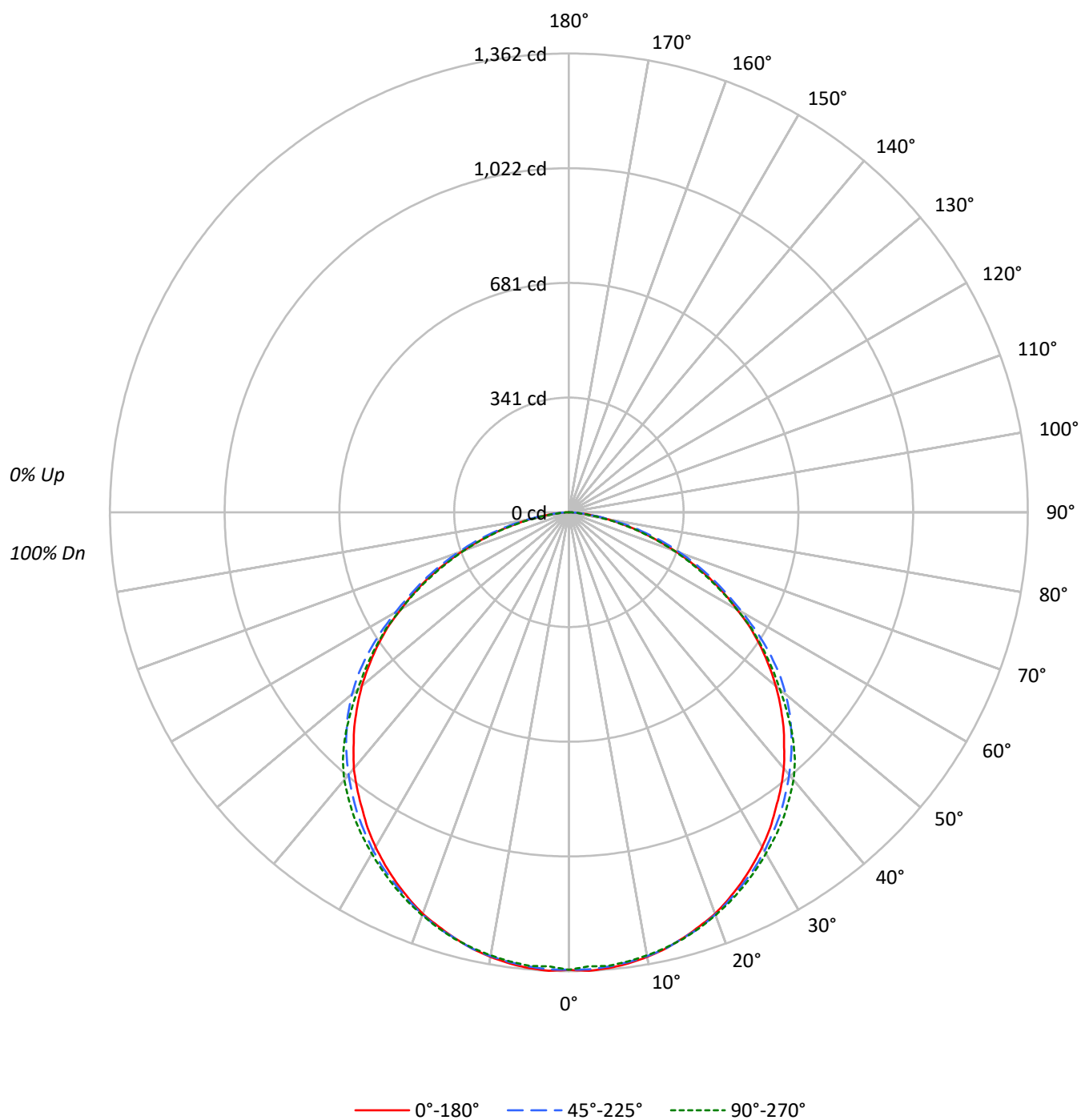
Input Watts (W): 35.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345173

CATALOG NUMBER: 14CZ-39-L850-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345173

CATALOG NUMBER: 14CZ-39-L850-HRP-UNV-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	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	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°	3654	3654	3654
5°	3668	3656	3650
10°	3661	3655	3649
15°	3645	3645	3651
20°	3632	3638	3644
25°	3599	3619	3639
30°	3565	3606	3634
35°	3518	3592	3643
40°	3487	3573	3644
45°	3428	3556	3573
50°	3358	3517	3424
55°	3259	3406	3290
60°	3099	3195	3099
65°	2925	3011	2868
70°	2626	2768	2592
75°	2259	2446	2214
80°	1771	1909	1598
85°	1244	1105	969



TEST NUMBER: P345173

CATALOG NUMBER: 14CZ-39-L850-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.3
10°-20°	369.2	9.6
20°-30°	560.9	14.6
30°-40°	681.3	17.8
40°-50°	711.6	18.5
50°-60°	632.9	16.5
60°-70°	461.9	12.0
70°-80°	240.9	6.3
80°-90°	49.8	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°	1058.5	27.6
0°-40°	1739.8	45.3
0°-60°	3084.4	80.4
0°-90°	3837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1358	1349	1353	1351	1351	129
15°	1308	1302	1308	1311	1311	369
25°	1212	1208	1219	1221	1226	559
35°	1071	1071	1093	1100	1109	671
45°	901	903	934	941	939	694
55°	695	708	726	706	701	619
65°	459	484	473	459	450	452
75°	217	238	235	220	213	231
85°	40	45	36	31	31	50
90°	0	0	0	0	0	



TEST NUMBER: P345173

CATALOG NUMBER: 14CZ-39-L850-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.8	1357.8	1357.8	1357.8	1357.8
2.5°	1362.3	1353.3	1357.8	1355.5	1348.8
5°	1357.8	1348.8	1353.3	1351.1	1351.1
7.5°	1351.1	1342.1	1346.6	1344.3	1344.3
10°	1339.9	1330.9	1337.6	1335.4	1335.4
12.5°	1326.4	1317.5	1326.4	1324.2	1324.2
15°	1308.5	1301.8	1308.5	1310.7	1310.7
17.5°	1288.3	1283.8	1292.8	1292.8	1292.8
20°	1268.2	1261.4	1270.4	1270.4	1272.6
22.5°	1241.3	1234.6	1245.8	1243.5	1250.2
25°	1212.1	1207.7	1218.9	1221.1	1225.6
27.5°	1180.8	1178.5	1192.0	1194.2	1198.7
30°	1147.2	1142.7	1160.6	1162.9	1169.6
32.5°	1111.3	1111.3	1127.0	1131.5	1140.4
35°	1071.0	1071.0	1093.4	1100.1	1109.1
37.5°	1032.9	1032.9	1055.3	1066.5	1073.2
40°	992.6	992.6	1017.2	1028.4	1037.4
42.5°	945.5	947.8	976.9	988.1	992.6
45°	900.7	902.9	934.3	941.0	938.8
47.5°	851.4	858.1	889.5	885.0	878.3
50°	802.1	808.8	840.2	822.3	817.8
52.5°	748.3	759.6	786.4	761.8	759.6
55°	694.6	708.0	725.9	705.8	701.3
57.5°	638.6	656.5	661.0	647.5	643.0
60°	575.8	600.5	593.7	582.5	575.8
62.5°	517.6	540.0	531.0	519.8	513.1
65°	459.3	484.0	472.8	459.3	450.4
67.5°	396.6	425.7	412.3	396.6	389.9
70°	333.8	358.5	351.8	336.1	329.4
72.5°	273.3	295.8	293.5	277.8	271.1
75°	217.3	237.5	235.3	219.6	212.9
77.5°	163.6	183.7	177.0	163.6	156.8
80°	114.3	132.2	123.2	109.8	103.1
82.5°	73.9	82.9	73.9	62.7	58.3
85°	40.3	44.8	35.8	31.4	31.4
87.5°	13.4	15.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)