

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: P345175

Luminaire Tested: **14CZ-44-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345175
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-L835-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3862.4 lumens
Efficiency: N/A
Efficacy: 94.0 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

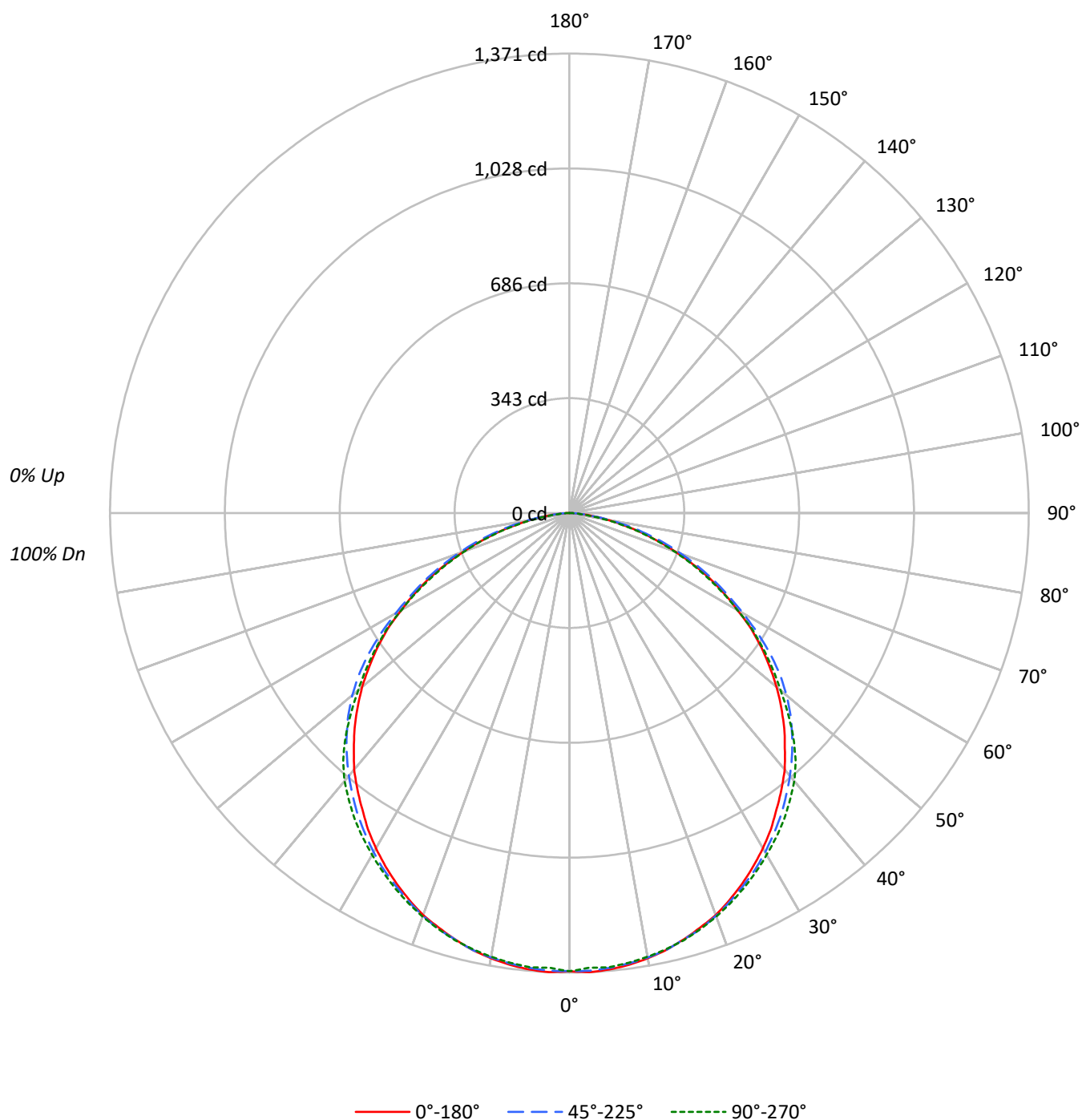
Input Watts (W): 41.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345175

CATALOG NUMBER: 14CZ-44-L835-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345175

CATALOG NUMBER: 14CZ-44-L835-HRP-UNV-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3678	3678	3678
5°	3692	3680	3674
10°	3686	3679	3673
15°	3670	3670	3676
20°	3656	3662	3669
25°	3623	3643	3663
30°	3588	3630	3658
35°	3542	3616	3667
40°	3510	3597	3668
45°	3451	3579	3596
50°	3380	3541	3446
55°	3280	3429	3312
60°	3119	3217	3119
65°	2944	3030	2886
70°	2644	2786	2608
75°	2275	2462	2228
80°	1782	1922	1609
85°	1254	1115	976



TEST NUMBER: P345175

CATALOG NUMBER: 14CZ-44-L835-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	3.3
10°-20°	371.6	9.6
20°-30°	564.6	14.6
30°-40°	685.8	17.8
40°-50°	716.4	18.5
50°-60°	637.1	16.5
60°-70°	465.0	12.0
70°-80°	242.5	6.3
80°-90°	50.1	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°	1065.6	27.6
0°-40°	1751.4	45.3
0°-60°	3104.8	80.4
0°-90°	3862.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1367	1358	1362	1360	1360	130
15°	1317	1310	1317	1319	1319	372
25°	1220	1216	1227	1229	1234	562
35°	1078	1078	1101	1107	1116	676
45°	907	909	940	947	945	699
55°	699	713	731	710	706	624
65°	462	487	476	462	453	455
75°	219	239	237	221	214	233
85°	41	45	36	32	32	51
90°	0	0	0	0	0	



TEST NUMBER: P345175

CATALOG NUMBER: 14CZ-44-L835-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.8	1366.8	1366.8	1366.8	1366.8
2.5°	1371.3	1362.3	1366.8	1364.5	1357.8
5°	1366.8	1357.8	1362.3	1360.0	1360.0
7.5°	1360.0	1351.0	1355.5	1353.3	1353.3
10°	1348.8	1339.7	1346.5	1344.2	1344.2
12.5°	1335.2	1326.2	1335.2	1333.0	1333.0
15°	1317.2	1310.4	1317.2	1319.4	1319.4
17.5°	1296.9	1292.4	1301.4	1301.4	1301.4
20°	1276.6	1269.8	1278.8	1278.8	1281.1
22.5°	1249.5	1242.7	1254.0	1251.8	1258.5
25°	1220.2	1215.7	1227.0	1229.2	1233.7
27.5°	1188.6	1186.4	1199.9	1202.1	1206.7
30°	1154.8	1150.3	1168.3	1170.6	1177.3
32.5°	1118.7	1118.7	1134.5	1139.0	1148.0
35°	1078.1	1078.1	1100.7	1107.4	1116.4
37.5°	1039.8	1039.8	1062.3	1073.6	1080.4
40°	999.2	999.2	1024.0	1035.2	1044.3
42.5°	951.8	954.1	983.4	994.6	999.2
45°	906.7	908.9	940.5	947.3	945.0
47.5°	857.1	863.8	895.4	890.9	884.1
50°	807.4	814.2	845.8	827.7	823.2
52.5°	753.3	764.6	791.7	766.8	764.6
55°	699.2	712.7	730.8	710.5	706.0
57.5°	642.8	660.8	665.4	651.8	647.3
60°	579.6	604.5	597.7	586.4	579.6
62.5°	521.0	543.6	534.5	523.3	516.5
65°	462.4	487.2	475.9	462.4	453.3
67.5°	399.2	428.5	415.0	399.2	392.4
70°	336.1	360.9	354.1	338.3	331.5
72.5°	275.2	297.7	295.5	279.7	272.9
75°	218.8	239.1	236.8	221.0	214.3
77.5°	164.6	184.9	178.2	164.6	157.9
80°	115.0	133.1	124.0	110.5	103.8
82.5°	74.4	83.5	74.4	63.2	58.6
85°	40.6	45.1	36.1	31.6	31.6
87.5°	13.5	15.8	15.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)