

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: P345123

Luminaire Tested: **22CZ-34-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-34-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

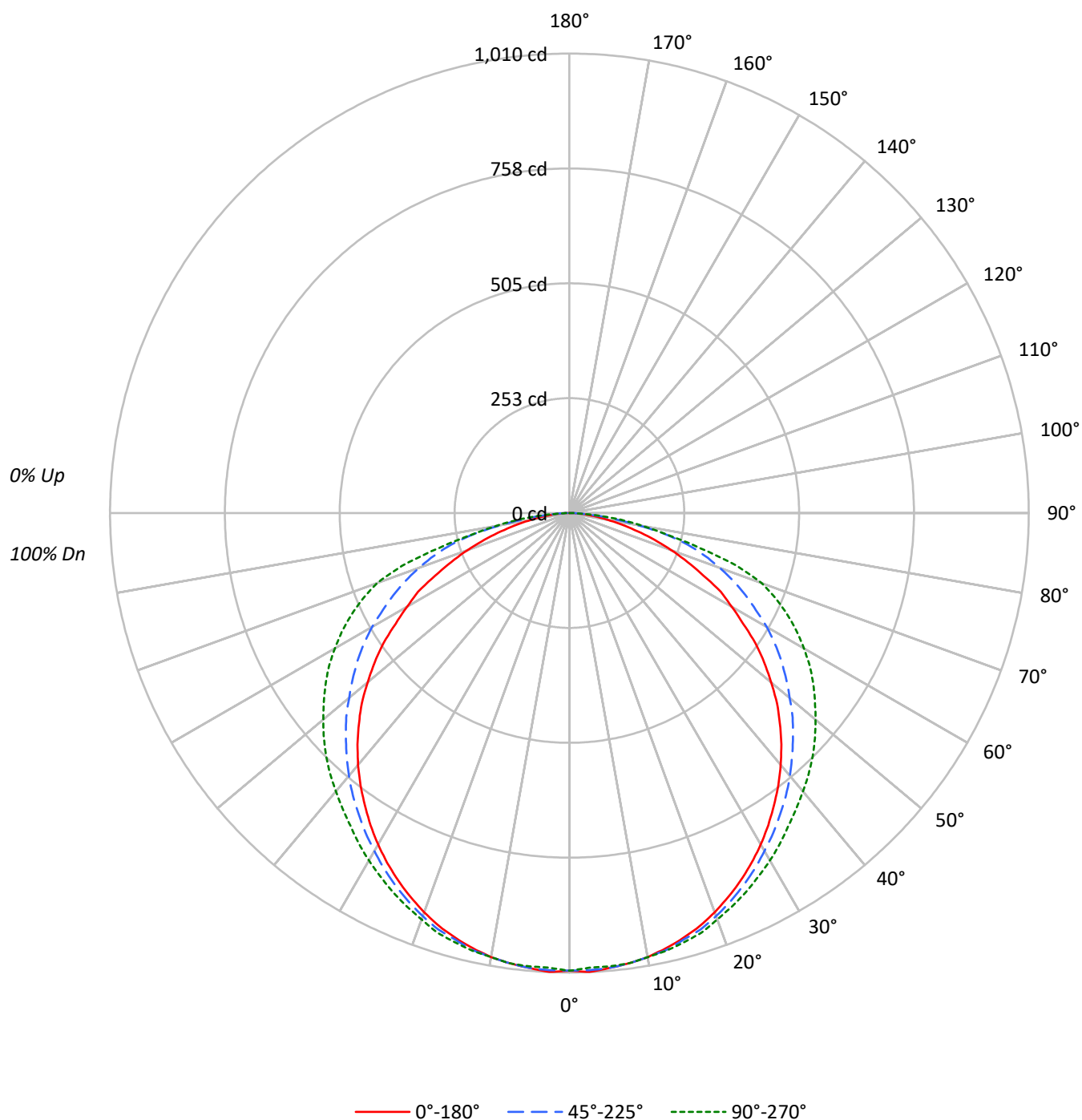
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345123

CATALOG NUMBER: 22CZ-34-L835-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345123

CATALOG NUMBER: 22CZ-34-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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2707	2707	2707
5°	2712	2712	2702
10°	2708	2708	2708
15°	2694	2704	2720
20°	2674	2700	2721
25°	2646	2684	2728
30°	2614	2666	2740
35°	2575	2654	2757
40°	2539	2650	2806
45°	2491	2646	2878
50°	2423	2647	2957
55°	2342	2671	3071
60°	2219	2696	3204
65°	2072	2720	3367
70°	1876	2764	3535
75°	1615	2806	3095
80°	1317	2349	2549
85°	1084	1714	1883



TEST NUMBER: P345123

CATALOG NUMBER: 22CZ-34-L835-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.1
10°-20°	274.2	8.9
20°-30°	416.8	13.5
30°-40°	507.3	16.4
40°-50°	540.3	17.5
50°-60°	511.1	16.5
60°-70°	421.3	13.6
70°-80°	259.1	8.4
80°-90°	63.3	2.0
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°	786.5	25.5
0°-40°	1293.7	41.9
0°-60°	2345.2	75.9
0°-90°	3088.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1004	1004	1004	1002	1000	95
15°	967	969	971	974	976	273
25°	891	895	904	913	919	411
35°	784	791	808	828	839	491
45°	654	666	695	734	756	505
55°	499	518	569	625	654	444
65°	325	357	427	496	529	323
75°	155	198	270	294	298	166
85°	35	46	56	59	61	41
90°	0	0	0	0	0	



TEST NUMBER: P345123

CATALOG NUMBER: 22CZ-34-L835-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.8	1005.8	1005.8	1005.8	1005.8
2.5°	1009.5	1007.6	1005.8	1002.1	1000.2
5°	1003.9	1003.9	1003.9	1002.1	1000.2
7.5°	998.4	998.4	998.4	998.4	998.4
10°	991.0	991.0	991.0	991.0	991.0
12.5°	979.9	981.7	983.6	983.6	985.4
15°	967.0	968.8	970.6	974.3	976.2
17.5°	952.2	954.0	959.6	963.3	967.0
20°	933.7	935.5	942.9	946.6	950.3
22.5°	913.3	917.0	924.4	931.8	935.5
25°	891.1	894.8	904.1	913.3	918.9
27.5°	867.1	870.8	881.9	894.8	900.4
30°	841.2	844.9	857.9	872.7	881.9
32.5°	813.5	819.0	833.8	852.3	861.6
35°	783.9	791.3	807.9	828.3	839.4
37.5°	754.3	761.7	782.1	806.1	819.0
40°	722.9	732.1	754.3	782.1	798.7
42.5°	689.6	700.7	724.8	758.0	778.4
45°	654.5	665.6	695.2	734.0	756.2
47.5°	619.4	632.3	665.6	708.1	732.1
50°	578.7	593.5	632.3	682.2	706.3
52.5°	539.9	558.4	600.9	654.5	680.4
55°	499.2	517.7	569.4	624.9	654.5
57.5°	453.0	475.2	536.2	595.3	626.8
60°	412.3	434.5	501.0	563.9	595.3
62.5°	375.3	395.7	462.2	530.6	563.9
65°	325.4	356.8	427.1	495.5	528.8
67.5°	281.0	316.2	390.1	454.8	491.8
70°	238.5	275.5	351.3	414.1	449.3
72.5°	196.0	236.7	312.5	367.9	386.4
75°	155.3	197.8	269.9	294.0	297.7
77.5°	118.3	160.9	218.2	216.3	220.0
80°	85.0	122.0	151.6	157.2	164.5
82.5°	57.3	85.0	98.0	107.2	114.6
85°	35.1	46.2	55.5	59.2	61.0
87.5°	16.6	18.5	18.5	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)