

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: P345121

Luminaire Tested: **22CZ-29-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345121
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-29-L850-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2825.6 lumens
Efficiency: N/A
Efficacy: 120.2 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

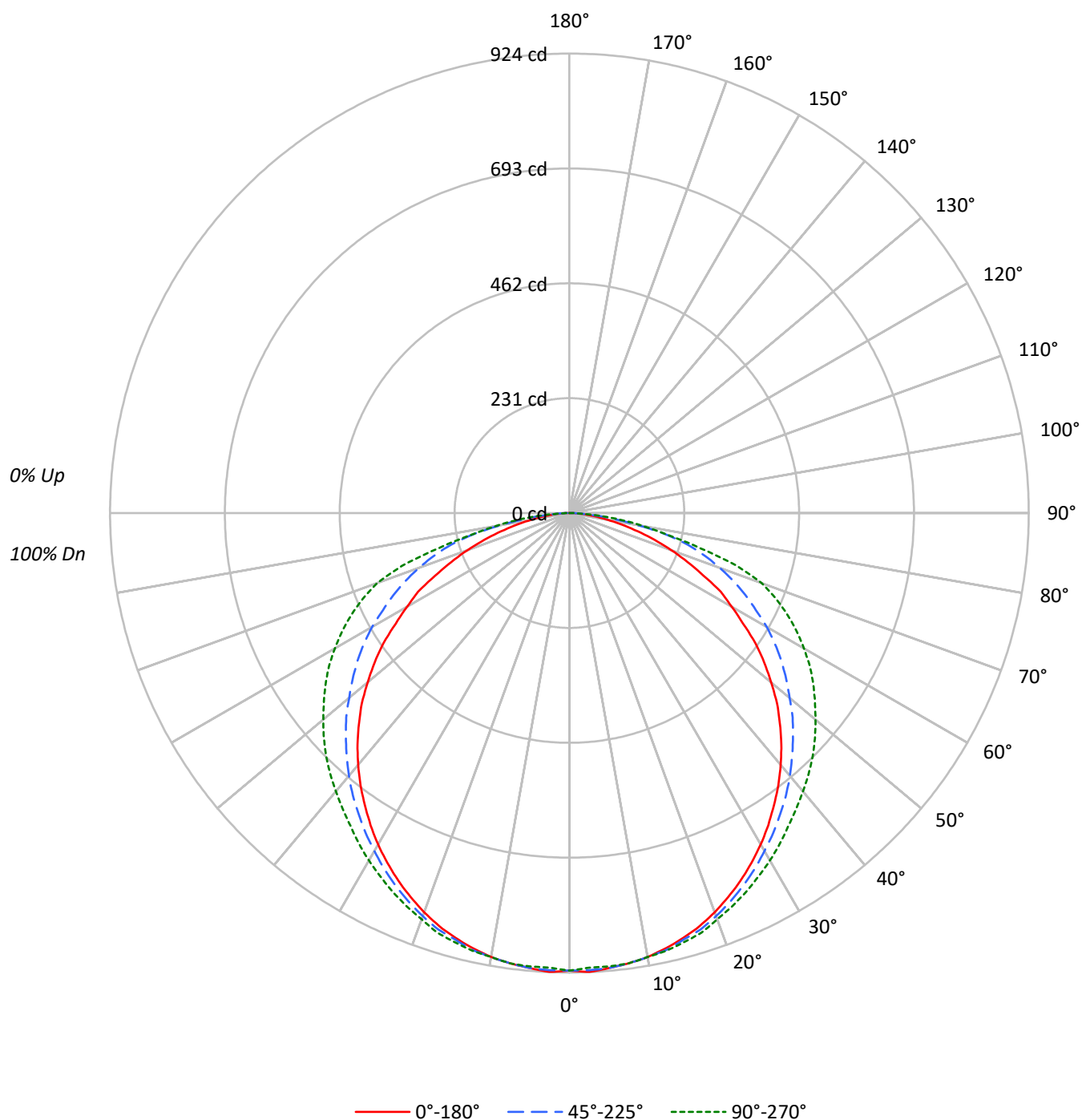
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345121

CATALOG NUMBER: 22CZ-29-L850-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345121

CATALOG NUMBER: 22CZ-29-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		68
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2476	2476	2476
5°	2481	2481	2472
10°	2477	2477	2477
15°	2464	2474	2488
20°	2446	2470	2489
25°	2420	2456	2496
30°	2391	2439	2507
35°	2356	2428	2523
40°	2323	2424	2566
45°	2278	2420	2632
50°	2216	2421	2705
55°	2143	2444	2809
60°	2030	2467	2931
65°	1896	2488	3080
70°	1717	2528	3234
75°	1477	2567	2831
80°	1206	2149	2332
85°	991	1565	1723



TEST NUMBER: P345121

CATALOG NUMBER: 22CZ-29-L850-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.1
10°-20°	250.9	8.9
20°-30°	381.3	13.5
30°-40°	464.0	16.4
40°-50°	494.3	17.5
50°-60°	467.6	16.5
60°-70°	385.4	13.6
70°-80°	237.0	8.4
80°-90°	57.9	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°	719.4	25.5
0°-40°	1183.5	41.9
0°-60°	2145.3	75.9
0°-90°	2825.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2825.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	918	918	918	917	915	87
15°	885	886	888	891	893	250
25°	815	819	827	836	841	376
35°	717	724	739	758	768	449
45°	599	609	636	671	692	462
55°	457	474	521	572	599	406
65°	298	326	391	453	484	296
75°	142	181	247	269	272	152
85°	32	42	51	54	56	38
90°	0	0	0	0	0	



TEST NUMBER: P345121

CATALOG NUMBER: 22CZ-29-L850-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.1	920.1	920.1	920.1	920.1
2.5°	923.5	921.8	920.1	916.7	915.0
5°	918.4	918.4	918.4	916.7	915.0
7.5°	913.3	913.3	913.3	913.3	913.3
10°	906.5	906.5	906.5	906.5	906.5
12.5°	896.4	898.1	899.8	899.8	901.5
15°	884.6	886.2	887.9	891.3	893.0
17.5°	871.0	872.7	877.8	881.2	884.6
20°	854.1	855.8	862.6	865.9	869.3
22.5°	835.5	838.9	845.7	852.4	855.8
25°	815.2	818.6	827.0	835.5	840.6
27.5°	793.2	796.6	806.8	818.6	823.7
30°	769.5	772.9	784.8	798.3	806.8
32.5°	744.2	749.2	762.8	779.7	788.1
35°	717.1	723.9	739.1	757.7	767.9
37.5°	690.1	696.8	715.4	737.4	749.2
40°	661.3	669.8	690.1	715.4	730.6
42.5°	630.9	641.0	663.0	693.4	712.0
45°	598.7	608.9	635.9	671.4	691.7
47.5°	566.6	578.4	608.9	647.8	669.8
50°	529.4	542.9	578.4	624.1	646.1
52.5°	493.9	510.8	549.7	598.7	622.4
55°	456.7	473.6	520.9	571.7	598.7
57.5°	414.4	434.7	490.5	544.6	573.4
60°	377.2	397.5	458.3	515.8	544.6
62.5°	343.3	361.9	422.8	485.4	515.8
65°	297.7	326.4	390.7	453.3	483.7
67.5°	257.1	289.2	356.9	416.1	449.9
70°	218.2	252.0	321.3	378.9	411.0
72.5°	179.3	216.5	285.8	336.6	353.5
75°	142.1	181.0	246.9	268.9	272.3
77.5°	108.2	147.1	199.6	197.9	201.3
80°	77.8	111.6	138.7	143.8	150.5
82.5°	52.4	77.8	89.6	98.1	104.9
85°	32.1	42.3	50.7	54.1	55.8
87.5°	15.2	16.9	16.9	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)