

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: P345118

Luminaire Tested: **22CZ-29-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345118
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2537.6 lumens
Efficiency: N/A
Efficacy: 108.0 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

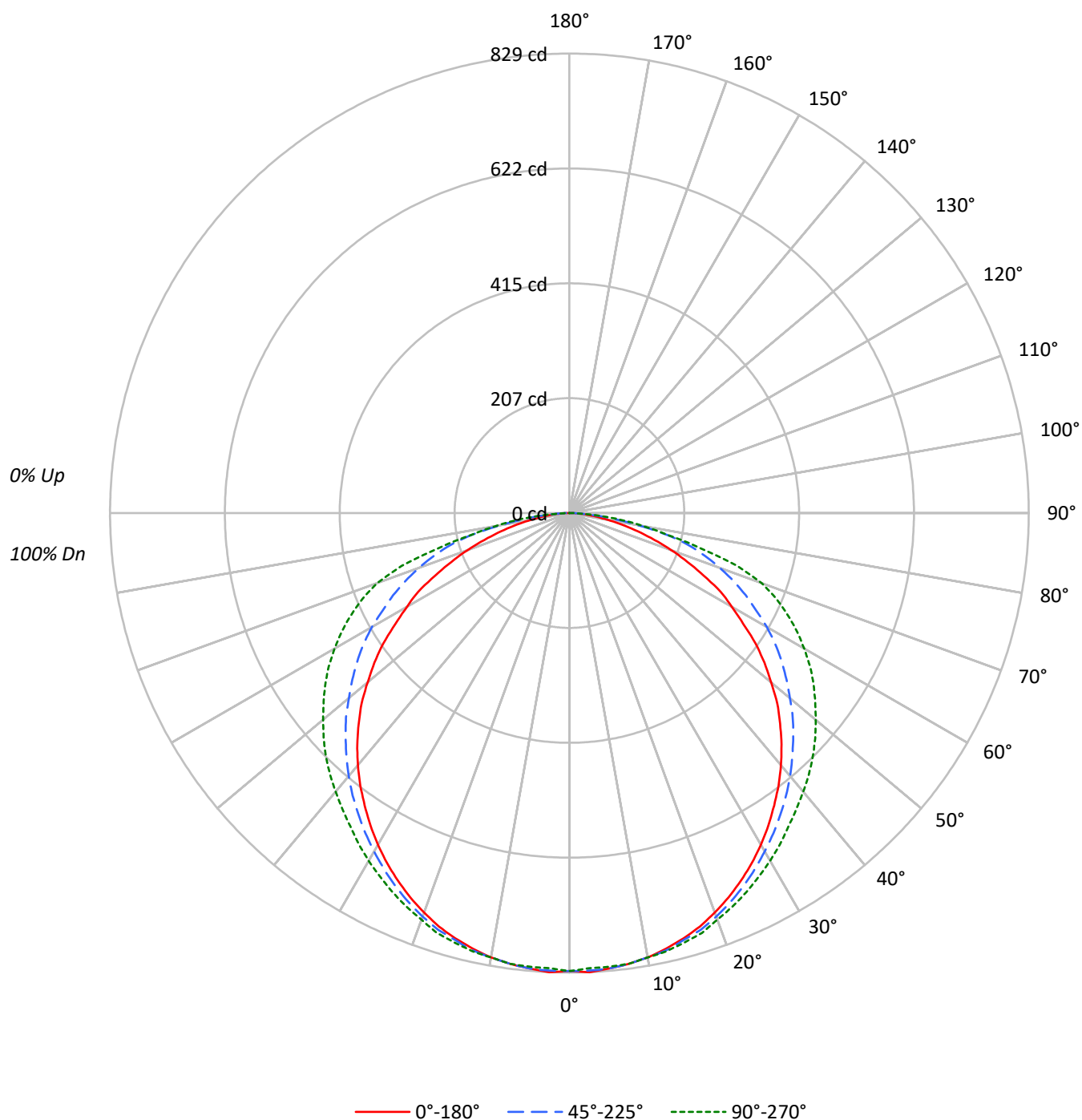
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345118

CATALOG NUMBER: 22CZ-29-L830-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345118

CATALOG NUMBER: 22CZ-29-L830-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°	2224	2224	2224
5°	2228	2228	2220
10°	2225	2225	2225
15°	2213	2221	2234
20°	2197	2218	2236
25°	2174	2205	2241
30°	2147	2190	2251
35°	2116	2181	2265
40°	2086	2177	2305
45°	2046	2173	2364
50°	1990	2175	2429
55°	1924	2195	2523
60°	1823	2215	2632
65°	1702	2234	2766
70°	1541	2271	2904
75°	1327	2306	2543
80°	1083	1931	2095
85°	892	1408	1547



TEST NUMBER: P345118

CATALOG NUMBER: 22CZ-29-L830-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.1
10°-20°	225.3	8.9
20°-30°	342.5	13.5
30°-40°	416.7	16.4
40°-50°	443.9	17.5
50°-60°	419.9	16.5
60°-70°	346.1	13.6
70°-80°	212.9	8.4
80°-90°	52.0	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°	646.1	25.5
0°-40°	1062.9	41.9
0°-60°	1926.7	75.9
0°-90°	2537.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	825	825	825	823	822	78
15°	794	796	797	800	802	224
25°	732	735	743	750	755	337
35°	644	650	664	680	690	403
45°	538	547	571	603	621	415
55°	410	425	468	513	538	365
65°	267	293	351	407	434	266
75°	128	162	222	242	245	137
85°	29	38	46	49	50	34
90°	0	0	0	0	0	



TEST NUMBER: P345118

CATALOG NUMBER: 22CZ-29-L830-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.3	826.3	826.3	826.3	826.3
2.5°	829.3	827.8	826.3	823.3	821.7
5°	824.8	824.8	824.8	823.3	821.7
7.5°	820.2	820.2	820.2	820.2	820.2
10°	814.2	814.2	814.2	814.2	814.2
12.5°	805.0	806.6	808.1	808.1	809.6
15°	794.4	795.9	797.4	800.5	802.0
17.5°	782.3	783.8	788.3	791.4	794.4
20°	767.1	768.6	774.7	777.7	780.7
22.5°	750.4	753.4	759.5	765.5	768.6
25°	732.1	735.2	742.8	750.4	754.9
27.5°	712.4	715.4	724.5	735.2	739.7
30°	691.1	694.2	704.8	716.9	724.5
32.5°	668.3	672.9	685.0	700.2	707.8
35°	644.0	650.1	663.8	680.5	689.6
37.5°	619.7	625.8	642.5	662.3	672.9
40°	593.9	601.5	619.7	642.5	656.2
42.5°	566.6	575.7	595.4	622.8	639.5
45°	537.7	546.8	571.1	603.0	621.2
47.5°	508.8	519.5	546.8	581.8	601.5
50°	475.4	487.6	519.5	560.5	580.2
52.5°	443.5	458.7	493.7	537.7	559.0
55°	410.1	425.3	467.8	513.4	537.7
57.5°	372.1	390.4	440.5	489.1	514.9
60°	338.7	357.0	411.6	463.3	489.1
62.5°	308.3	325.1	379.7	435.9	463.3
65°	267.3	293.2	350.9	407.1	434.4
67.5°	230.9	259.7	320.5	373.7	404.0
70°	195.9	226.3	288.6	340.2	369.1
72.5°	161.0	194.4	256.7	302.3	317.5
75°	127.6	162.5	221.8	241.5	244.6
77.5°	97.2	132.1	179.2	177.7	180.8
80°	69.9	100.3	124.6	129.1	135.2
82.5°	47.1	69.9	80.5	88.1	94.2
85°	28.9	38.0	45.6	48.6	50.1
87.5°	13.7	15.2	15.2	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)