

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: P345122

Luminaire Tested: **22CZ-34-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345122
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3060.5 lumens
Efficiency: N/A
Efficacy: 104.1 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

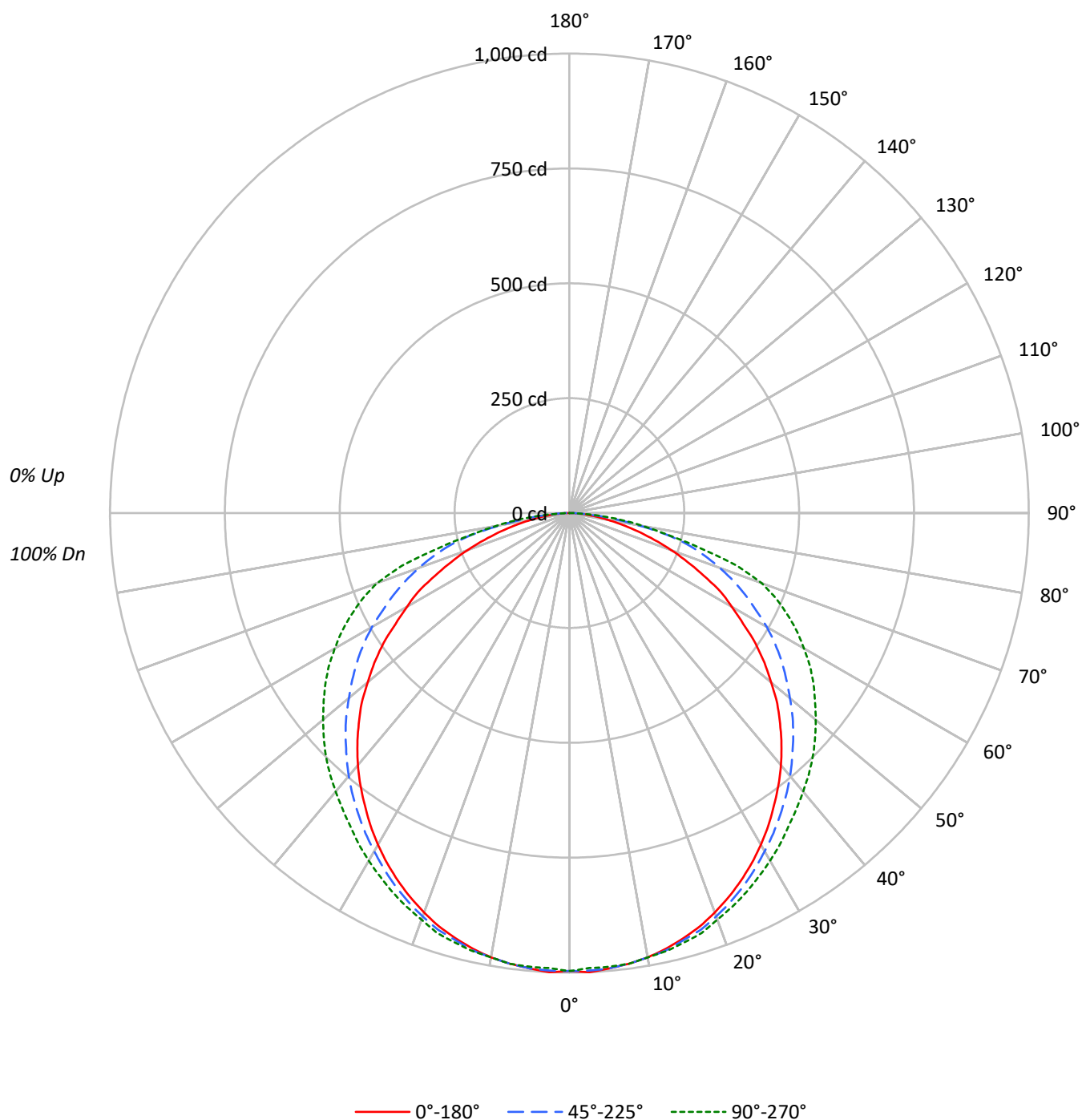
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2682	2682	2682
5°	2687	2687	2677
10°	2683	2683	2683
15°	2669	2679	2695
20°	2649	2676	2696
25°	2622	2660	2703
30°	2590	2641	2715
35°	2552	2630	2732
40°	2516	2625	2780
45°	2468	2621	2852
50°	2400	2623	2930
55°	2320	2647	3042
60°	2199	2672	3175
65°	2053	2695	3336
70°	1859	2739	3503
75°	1600	2781	3066
80°	1306	2328	2526
85°	1074	1698	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.1
10°-20°	271.7	8.9
20°-30°	413.0	13.5
30°-40°	502.6	16.4
40°-50°	535.4	17.5
50°-60°	506.4	16.5
60°-70°	417.4	13.6
70°-80°	256.7	8.4
80°-90°	62.7	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°	779.3	25.5
0°-40°	1281.9	41.9
0°-60°	2323.7	75.9
0°-90°	3060.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	995	995	995	993	991	95
15°	958	960	962	965	967	270
25°	883	887	896	905	910	407
35°	777	784	801	821	832	486
45°	648	660	689	727	749	500
55°	495	513	564	619	648	440
65°	322	354	423	491	524	320
75°	154	196	268	291	295	165
85°	35	46	55	59	60	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.6	996.6	996.6	996.6	996.6
2.5°	1000.2	998.4	996.6	992.9	991.1
5°	994.7	994.7	994.7	992.9	991.1
7.5°	989.2	989.2	989.2	989.2	989.2
10°	981.9	981.9	981.9	981.9	981.9
12.5°	970.9	972.8	974.6	974.6	976.4
15°	958.1	959.9	961.8	965.4	967.3
17.5°	943.4	945.3	950.8	954.4	958.1
20°	925.1	927.0	934.3	938.0	941.6
22.5°	905.0	908.6	916.0	923.3	927.0
25°	883.0	886.7	895.8	905.0	910.5
27.5°	859.2	862.8	873.8	886.7	892.2
30°	833.5	837.2	850.0	864.7	873.8
32.5°	806.1	811.5	826.2	844.5	853.7
35°	776.7	784.1	800.6	820.7	831.7
37.5°	747.4	754.8	774.9	798.7	811.5
40°	716.3	725.4	747.4	774.9	791.4
42.5°	683.3	694.3	718.1	751.1	771.2
45°	648.5	659.5	688.8	727.3	749.3
47.5°	613.7	626.5	659.5	701.6	725.4
50°	573.4	588.1	626.5	676.0	699.8
52.5°	534.9	553.2	595.4	648.5	674.2
55°	494.6	512.9	564.2	619.2	648.5
57.5°	448.8	470.8	531.3	589.9	621.0
60°	408.5	430.5	496.5	558.7	589.9
62.5°	371.9	392.0	458.0	525.8	558.7
65°	322.4	353.6	423.2	491.0	523.9
67.5°	278.5	313.3	386.5	450.7	487.3
70°	236.3	273.0	348.1	410.4	445.2
72.5°	194.2	234.5	309.6	364.6	382.9
75°	153.9	196.0	267.5	291.3	294.9
77.5°	117.2	159.4	216.2	214.3	218.0
80°	84.3	120.9	150.2	155.7	163.0
82.5°	56.8	84.3	97.1	106.3	113.6
85°	34.8	45.8	55.0	58.6	60.5
87.5°	16.5	18.3	18.3	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)