

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: P345125

Luminaire Tested: **22CZ-34-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345125
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-L850-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3407.6 lumens
Efficiency: N/A
Efficacy: 115.9 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

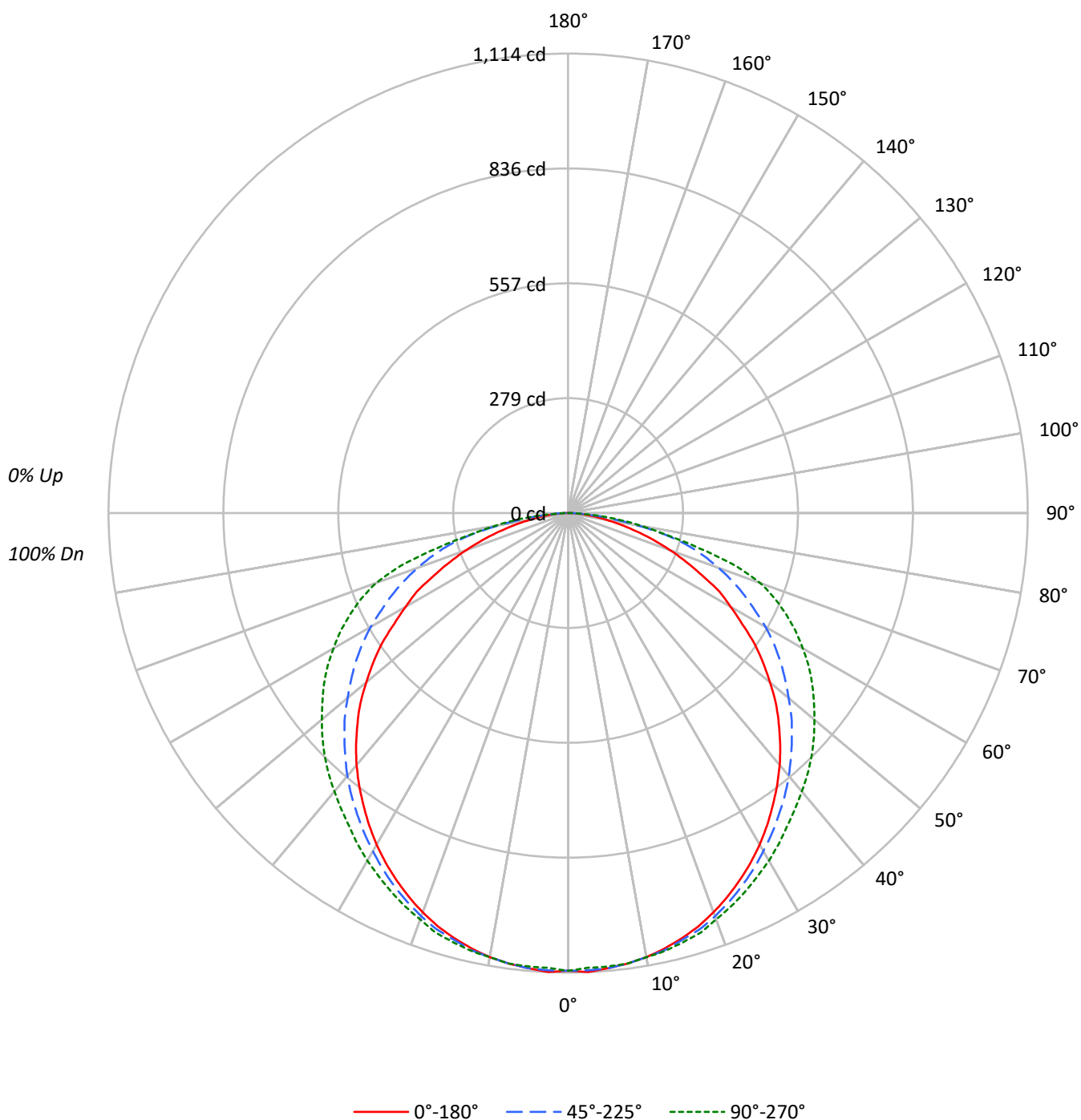
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2986	2986	2986
5°	2992	2992	2981
10°	2987	2987	2987
15°	2972	2983	3000
20°	2950	2979	3002
25°	2919	2961	3010
30°	2884	2941	3023
35°	2841	2928	3042
40°	2801	2923	3095
45°	2748	2919	3175
50°	2673	2920	3262
55°	2584	2947	3388
60°	2448	2975	3535
65°	2286	3000	3715
70°	2070	3049	3900
75°	1781	3096	3414
80°	1454	2593	2813
85°	1198	1890	2078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.1
10°-20°	302.6	8.9
20°-30°	459.9	13.5
30°-40°	559.6	16.4
40°-50°	596.1	17.5
50°-60°	563.9	16.5
60°-70°	464.8	13.6
70°-80°	285.8	8.4
80°-90°	69.8	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°	867.6	25.5
0°-40°	1427.3	41.9
0°-60°	2587.2	75.9
0°-90°	3407.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1108	1108	1108	1106	1104	105
15°	1067	1069	1071	1075	1077	301
25°	983	987	997	1008	1014	453
35°	865	873	891	914	926	541
45°	722	734	767	810	834	557
55°	551	571	628	689	722	490
65°	359	394	471	547	583	357
75°	171	218	298	324	328	184
85°	39	51	61	65	67	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.6	1109.6	1109.6	1109.6	1109.6
2.5°	1113.7	1111.6	1109.6	1105.5	1103.5
5°	1107.6	1107.6	1107.6	1105.5	1103.5
7.5°	1101.4	1101.4	1101.4	1101.4	1101.4
10°	1093.3	1093.3	1093.3	1093.3	1093.3
12.5°	1081.0	1083.1	1085.1	1085.1	1087.2
15°	1066.8	1068.8	1070.8	1074.9	1077.0
17.5°	1050.5	1052.5	1058.6	1062.7	1066.8
20°	1030.1	1032.1	1040.3	1044.3	1048.4
22.5°	1007.6	1011.7	1019.9	1028.0	1032.1
25°	983.1	987.2	997.4	1007.6	1013.7
27.5°	956.6	960.7	972.9	987.2	993.3
30°	928.1	932.1	946.4	962.7	972.9
32.5°	897.5	903.6	919.9	940.3	950.5
35°	864.8	873.0	891.4	913.8	926.0
37.5°	832.2	840.4	862.8	889.3	903.6
40°	797.5	807.7	832.2	862.8	881.2
42.5°	760.8	773.1	799.6	836.3	858.7
45°	722.1	734.3	766.9	809.8	834.2
47.5°	683.3	697.6	734.3	781.2	807.7
50°	638.4	654.7	697.6	752.7	779.2
52.5°	595.6	616.0	662.9	722.1	750.6
55°	550.7	571.1	628.2	689.4	722.1
57.5°	499.7	524.2	591.5	656.8	691.5
60°	454.9	479.3	552.8	622.1	656.8
62.5°	414.1	436.5	509.9	585.4	622.1
65°	359.0	393.7	471.2	546.6	583.4
67.5°	310.0	348.8	430.4	501.8	542.6
70°	263.1	303.9	387.5	456.9	495.7
72.5°	216.2	261.1	344.7	405.9	426.3
75°	171.3	218.2	297.8	324.3	328.4
77.5°	130.5	177.5	240.7	238.6	242.7
80°	93.8	134.6	167.3	173.4	181.5
82.5°	63.2	93.8	108.1	118.3	126.5
85°	38.8	51.0	61.2	65.3	67.3
87.5°	18.4	20.4	20.4	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)