

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: P#

Luminaire Tested: **HBLED-LD5-12SE-W-CL-UNV-L850-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-CL-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

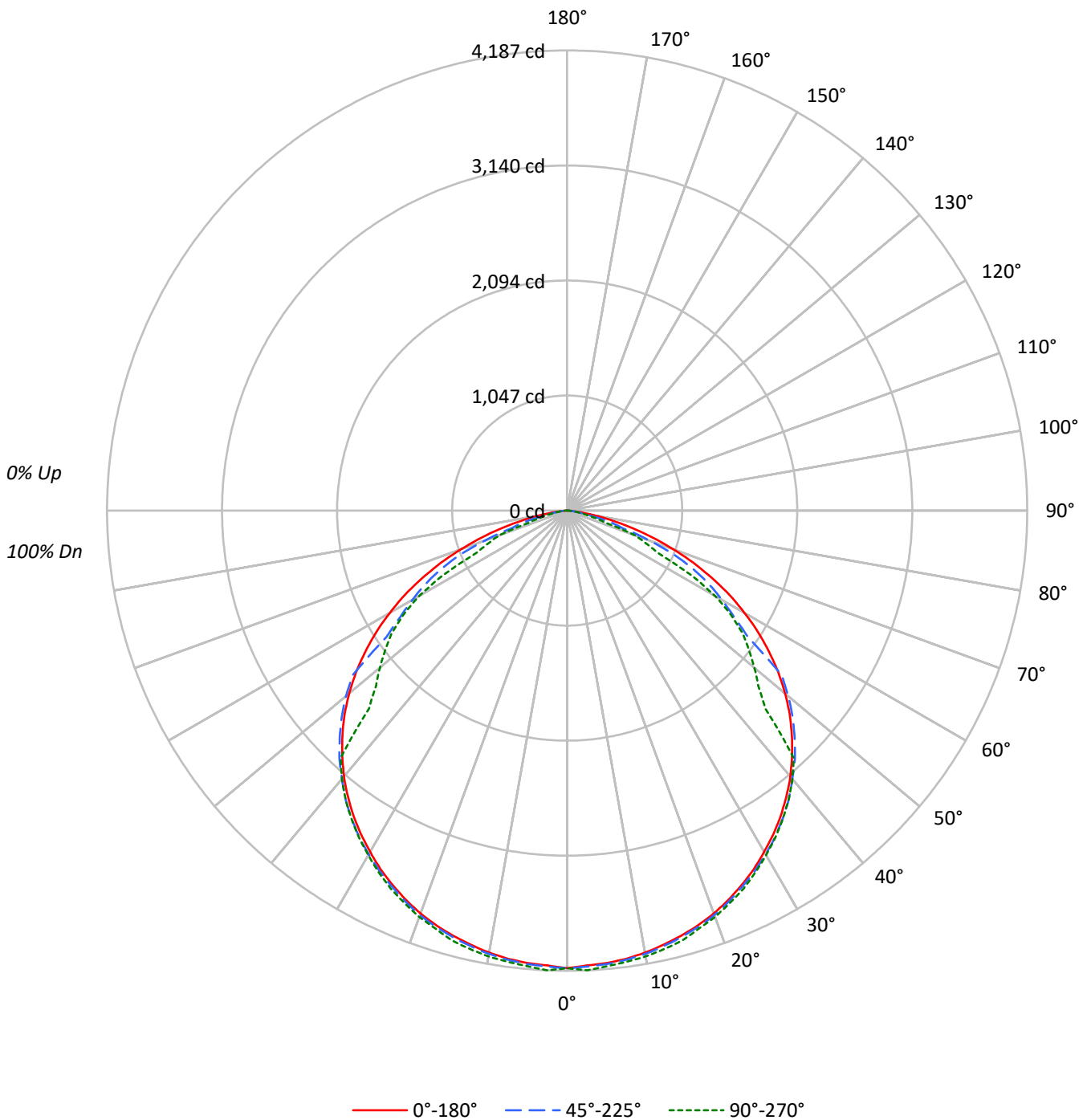
Lumens per Lamp: N/A
Luminaire Lumens: 11254.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5601	5601	5601
5°	5581	5593	5620
10°	5580	5596	5629
15°	5580	5597	5642
20°	5587	5608	5634
25°	5580	5601	5635
30°	5570	5611	5623
35°	5567	5618	5622
40°	5550	5599	5599
45°	5502	5569	4852
50°	5417	5499	4656
55°	5264	4707	4573
60°	5017	4376	4178
65°	4639	4062	2893
70°	4040	3161	2578
75°	3191	2121	1386
80°	2054	1013	864
85°	844	618	681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.9	3.5
10°-20°	1138.2	10.1
20°-30°	1745.0	15.5
30°-40°	2138.8	19.0
40°-50°	2198.8	19.5
50°-60°	1876.6	16.7
60°-70°	1240.7	11.0
70°-80°	459.6	4.1
80°-90°	61.5	0.5
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°	3278.1	29.1
0°-40°	5416.8	48.1
0°-60°	9492.2	84.3
0°-90°	11254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4163	4163	4163	4163	4163	
5°	4132	4161	4141	4157	4161	393
15°	4006	4030	4018	4048	4050	1131
25°	3759	3779	3773	3807	3796	1733
35°	3389	3413	3420	3442	3423	2120
45°	2892	2920	2927	2922	2550	2228
55°	2244	2285	2007	1948	1949	2002
65°	1457	1469	1276	1049	909	1437
75°	614	538	408	274	267	659
85°	55	39	40	44	44	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4162.8	4162.8	4162.8	4162.8	4162.8
2.5°	4142.5	4168.4	4153.2	4172.4	4187.1
5°	4131.9	4160.8	4141.0	4157.2	4161.3
7.5°	4113.6	4140.5	4122.3	4143.6	4140.5
10°	4084.2	4108.6	4095.9	4118.2	4119.7
12.5°	4046.7	4071.1	4059.4	4086.8	4086.3
15°	4005.7	4030.0	4017.9	4048.3	4050.3
17.5°	3957.5	3979.8	3970.7	3998.6	3987.4
20°	3901.8	3921.0	3916.5	3942.8	3934.7
22.5°	3833.4	3853.1	3848.6	3879.0	3866.8
25°	3758.8	3778.6	3773.0	3807.0	3795.8
27.5°	3678.3	3697.0	3696.5	3728.4	3711.2
30°	3585.0	3609.8	3611.4	3639.7	3619.5
32.5°	3492.7	3516.1	3522.7	3543.4	3526.2
35°	3389.3	3412.7	3420.3	3441.6	3422.8
37.5°	3277.8	3297.6	3311.3	3327.0	3312.3
40°	3159.7	3177.5	3187.6	3206.9	3187.6
42.5°	3028.0	3053.3	3067.5	3081.2	3049.8
45°	2891.6	2920.5	2926.6	2922.0	2550.0
47.5°	2747.2	2778.6	2782.1	2426.3	2357.9
50°	2588.0	2627.5	2627.0	2242.3	2224.1
52.5°	2422.3	2460.3	2458.8	2098.4	2086.2
55°	2243.9	2284.9	2006.6	1948.4	1949.4
57.5°	2061.9	2091.3	1800.4	1802.9	1769.4
60°	1864.2	1892.1	1626.0	1610.3	1552.5
62.5°	1666.0	1677.7	1457.2	1380.7	1270.7
65°	1457.2	1469.4	1275.8	1049.2	908.8
67.5°	1242.8	1255.0	1058.8	780.6	769.9
70°	1026.9	927.5	803.4	650.3	655.4
72.5°	814.0	712.6	525.1	503.8	363.9
75°	613.8	537.8	408.0	274.2	266.6
77.5°	427.3	370.5	218.5	187.0	174.9
80°	265.1	186.0	130.8	116.1	111.5
82.5°	134.3	106.9	71.0	71.0	71.0
85°	54.7	39.0	40.0	43.6	44.1
87.5°	11.7	15.7	19.3	19.8	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)