

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-LD5-15SE-W-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 (P23760)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15SE-W-UNV-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

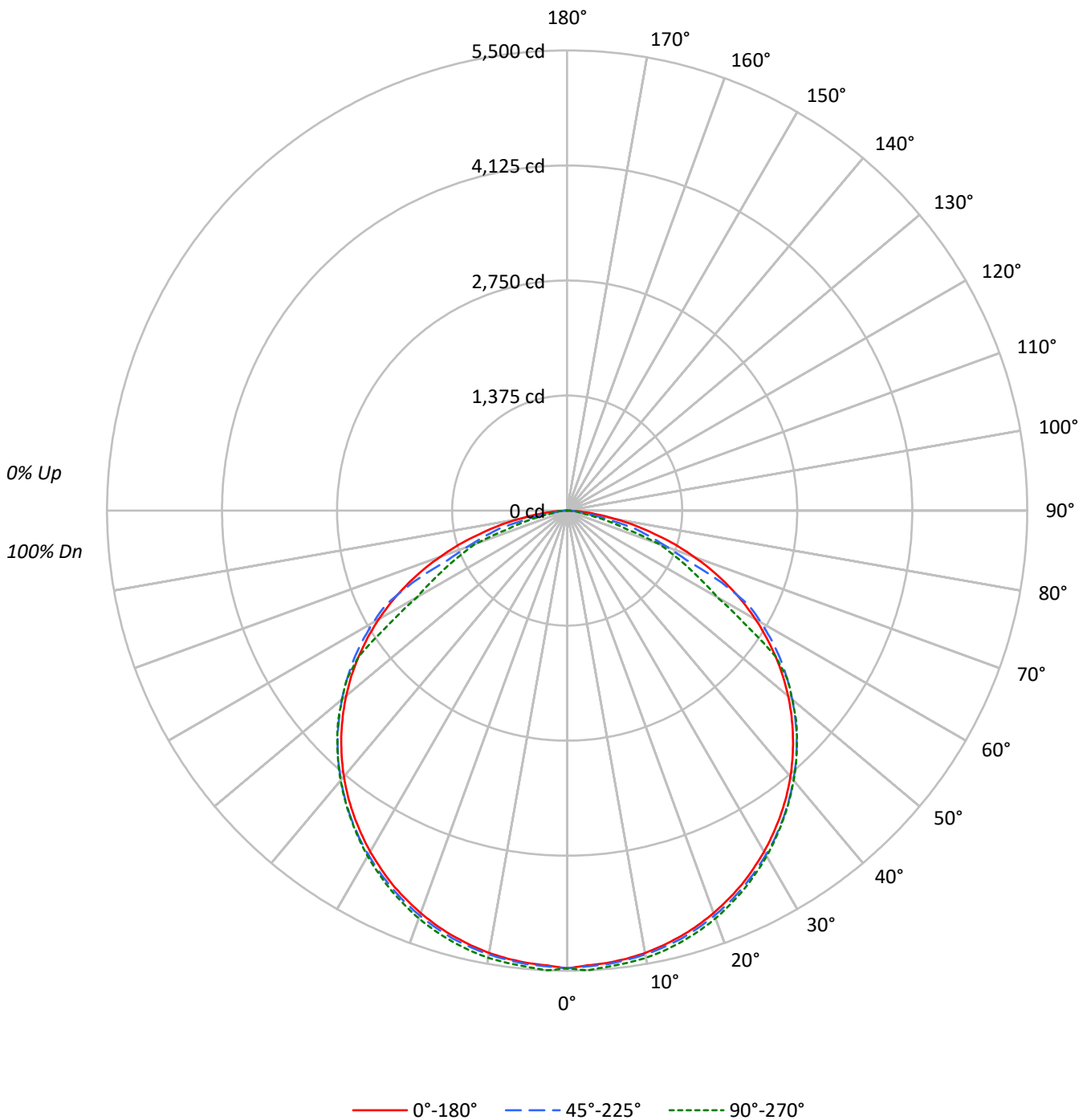
Lumens per Lamp: N/A  
Luminaire Lumens: 15794.0 lumens  
Efficiency: N/A  
Efficacy: 165.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 95.2  
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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7361	7361	7361
5°	7331	7351	7393
10°	7335	7361	7416
15°	7333	7372	7423
20°	7329	7376	7428
25°	7326	7379	7420
30°	7314	7385	7412
35°	7304	7388	7398
40°	7291	7388	7400
45°	7264	7385	7394
50°	7220	7353	7352
55°	7136	7315	7133
60°	7004	7207	5581
65°	6770	6486	5028
70°	6342	4990	4634
75°	5616	4351	2888
80°	4625	2562	1291
85°	3047	1570	1690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.2	3.3
10°-20°	1497.8	9.5
20°-30°	2296.4	14.5
30°-40°	2816.2	17.8
40°-50°	2990.4	18.9
50°-60°	2731.3	17.3
60°-70°	1902.1	12.0
70°-80°	887.1	5.6
80°-90°	153.5	1.0
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°	4313.3	27.3
0°-40°	7129.6	45.1
0°-60°	12851.3	81.4
0°-90°	15794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5471	5471	5471	5471	5471	
5°	5428	5466	5443	5469	5474	516
15°	5264	5301	5292	5325	5329	1487
25°	4935	4978	4970	5007	4998	2274
35°	4447	4498	4498	4528	4504	2783
45°	3817	3875	3881	3906	3886	2944
55°	3042	3103	3118	3123	3041	2717
65°	2126	2192	2037	1620	1579	2098
75°	1080	1148	837	580	556	1155
85°	197	130	102	109	110	255
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5470.9	5470.9	5470.9	5470.9	5470.9
2.5°	5442.0	5476.8	5453.8	5478.8	5499.8
5°	5427.6	5465.7	5442.7	5468.9	5473.5
7.5°	5404.0	5440.1	5419.1	5447.9	5455.2
10°	5368.6	5404.0	5387.6	5421.7	5428.3
12.5°	5320.7	5356.8	5344.3	5381.7	5386.3
15°	5264.3	5301.0	5292.5	5324.6	5329.2
17.5°	5198.0	5236.1	5226.2	5260.4	5263.6
20°	5118.7	5160.0	5151.5	5191.5	5187.5
22.5°	5029.5	5073.4	5066.9	5106.9	5095.1
25°	4935.0	4978.3	4970.4	5007.2	4998.0
27.5°	4824.2	4872.1	4864.8	4900.3	4885.8
30°	4707.4	4756.0	4753.3	4785.5	4771.0
32.5°	4581.5	4633.3	4630.7	4662.2	4639.9
35°	4447.0	4498.2	4498.2	4528.4	4504.1
37.5°	4304.7	4356.5	4357.2	4386.0	4363.1
40°	4151.2	4203.0	4206.3	4233.9	4212.9
42.5°	3989.9	4046.3	4048.9	4073.8	4054.1
45°	3817.4	3875.1	3881.0	3905.9	3885.6
47.5°	3637.0	3695.4	3700.6	3727.5	3713.1
50°	3449.4	3505.8	3513.0	3535.3	3512.4
52.5°	3251.3	3309.0	3318.9	3332.6	3322.2
55°	3042.1	3103.1	3118.2	3123.4	3040.8
57.5°	2825.6	2887.9	2902.4	2781.7	2516.0
60°	2602.6	2664.3	2678.1	2262.9	2074.0
62.5°	2370.4	2430.8	2445.9	1875.2	1814.9
65°	2126.4	2192.0	2037.2	1620.1	1579.4
67.5°	1875.9	1943.4	1540.7	1388.5	1364.3
70°	1612.2	1680.4	1268.5	1183.9	1178.0
72.5°	1359.0	1409.5	1040.9	897.3	755.6
75°	1080.3	1148.5	836.9	579.8	555.6
77.5°	837.6	724.1	505.0	425.0	335.2
80°	596.9	484.1	330.6	176.4	166.6
82.5°	378.5	316.1	129.9	133.1	139.1
85°	197.4	129.9	101.7	108.9	109.5
87.5°	63.6	55.8	61.0	60.3	59.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)