

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15SE-W-WG-UNV-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

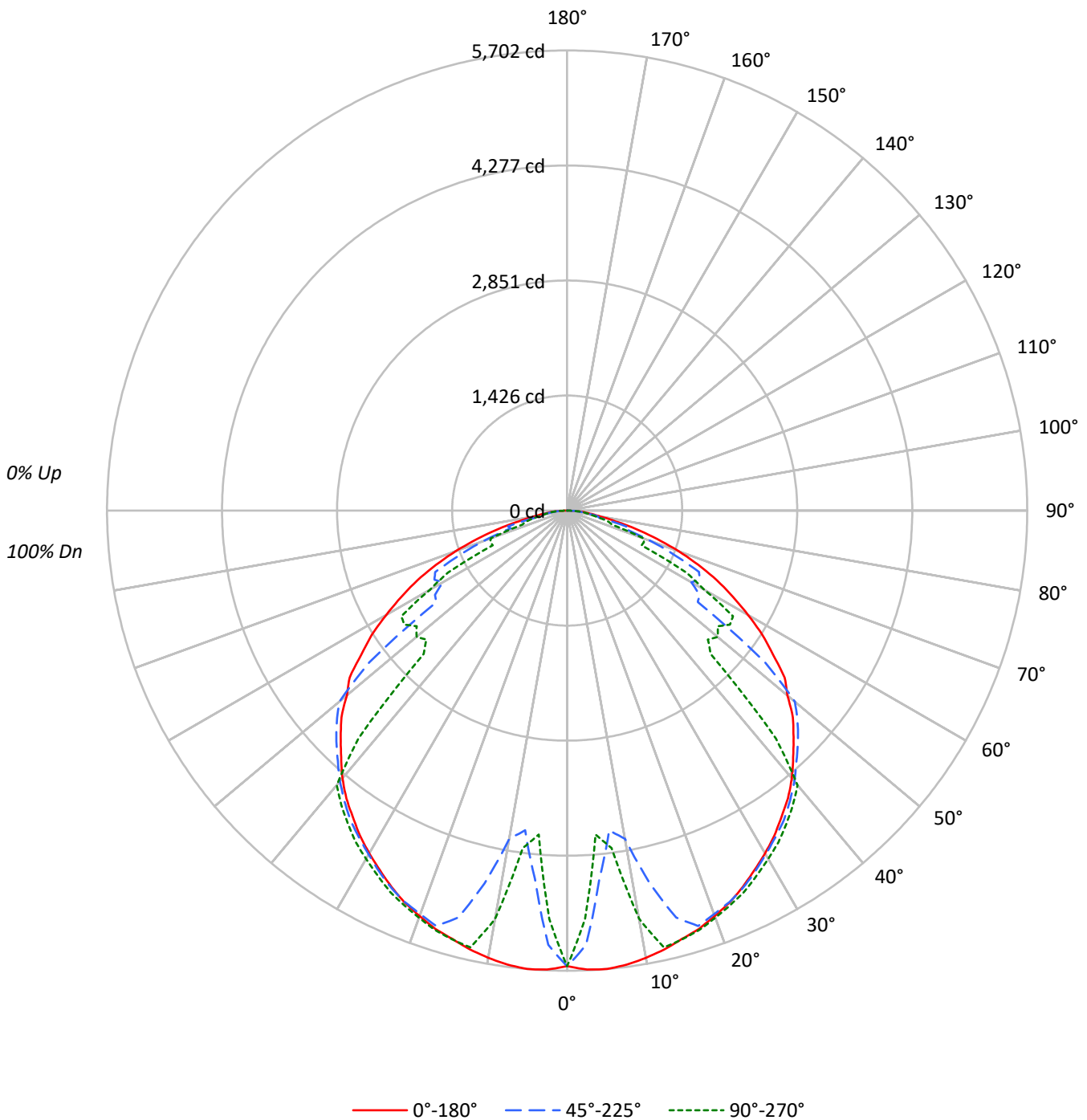
Lumens per Lamp: N/A  
Luminaire Lumens: 14957.0 lumens  
Efficiency: N/A  
Efficacy: 157.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	7596	7596	7596
5°	7702	6188	5442
10°	7689	5643	7018
15°	7655	7273	7661
20°	7655	7620	7688
25°	7641	7658	7728
30°	7619	7644	7743
35°	7607	7691	7781
40°	7608	7691	7801
45°	7548	7696	4783
50°	7463	7711	5097
55°	7305	4637	5777
60°	6969	4780	5290
65°	6529	5739	3237
70°	5766	4347	3968
75°	4594	3952	2752
80°	3164	2856	2364
85°	3034	2637	2501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.5	3.0
10°-20°	1414.4	9.5
20°-30°	2327.0	15.6
30°-40°	2925.8	19.6
40°-50°	2869.5	19.2
50°-60°	2377.5	15.9
60°-70°	1676.9	11.2
70°-80°	731.6	4.9
80°-90°	182.8	1.2
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°	4192.8	28.0
0°-40°	7118.6	47.6
0°-60°	12365.7	82.7
0°-90°	14957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5646	5646	5646	5646	5646	
5°	5702	5308	4581	4154	4029	541
15°	5495	3816	5221	5517	5500	1554
25°	5147	4709	5158	5193	5206	2372
35°	4631	4628	4682	4714	4737	2902
45°	3967	3979	4044	3582	2513	3062
55°	3114	3216	1977	2247	2463	2786
65°	2051	2172	1802	1387	1017	2017
75°	884	866	760	497	529	948
85°	196	175	171	163	162	204
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5645.8	5645.8	5645.8	5645.8	5645.8
2.5°	5692.4	5574.2	5386.5	5150.3	5066.6
5°	5702.5	5307.6	4581.2	4153.8	4028.9
7.5°	5673.5	4823.5	3993.8	4083.6	4215.9
10°	5627.6	4398.2	4130.2	4859.3	5136.8
12.5°	5568.8	4020.2	4731.7	5489.2	5544.5
15°	5495.2	3816.3	5221.1	5516.8	5500.0
17.5°	5433.1	3935.8	5396.7	5461.5	5449.3
20°	5346.0	4174.1	5321.7	5373.7	5369.0
22.5°	5258.3	4456.3	5250.9	5288.0	5288.0
25°	5146.9	4709.4	5158.4	5192.8	5205.6
27.5°	5024.7	4855.3	5042.9	5071.3	5094.2
30°	4903.9	4876.2	4920.1	4956.5	4983.5
32.5°	4776.3	4765.5	4799.9	4838.4	4872.8
35°	4631.1	4628.4	4682.4	4713.5	4737.1
37.5°	4494.8	4485.3	4535.3	4578.5	4596.7
40°	4331.4	4331.4	4378.6	4422.5	4441.4
42.5°	4145.1	4171.4	4207.8	4253.1	3830.5
45°	3966.8	3979.0	4044.5	3582.0	2513.4
47.5°	3795.4	3810.9	3873.0	2302.7	2365.5
50°	3565.2	3635.4	3684.0	2296.0	2435.1
52.5°	3397.1	3427.4	3092.6	2273.0	2351.3
55°	3114.2	3216.1	1976.7	2247.4	2462.7
57.5°	2872.5	2946.8	1943.6	2302.7	2436.4
60°	2589.6	2703.1	1776.2	2221.7	1965.9
62.5°	2318.3	2426.3	1854.5	1748.5	1664.8
65°	2050.9	2171.8	1802.5	1386.6	1016.7
67.5°	1757.9	1645.2	1437.9	976.9	1028.2
70°	1465.6	1149.0	1105.1	1092.3	1008.6
72.5°	1165.2	838.5	733.8	819.6	586.7
75°	883.7	866.1	760.2	496.9	529.3
77.5°	613.0	625.1	407.1	484.7	402.4
80°	408.4	353.7	368.6	309.2	305.1
82.5°	282.9	288.9	242.4	234.9	238.3
85°	196.5	174.8	170.8	163.4	162.0
87.5°	65.5	76.3	70.9	64.1	68.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)