

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-A-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 (P23761)  
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-A-UNV-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

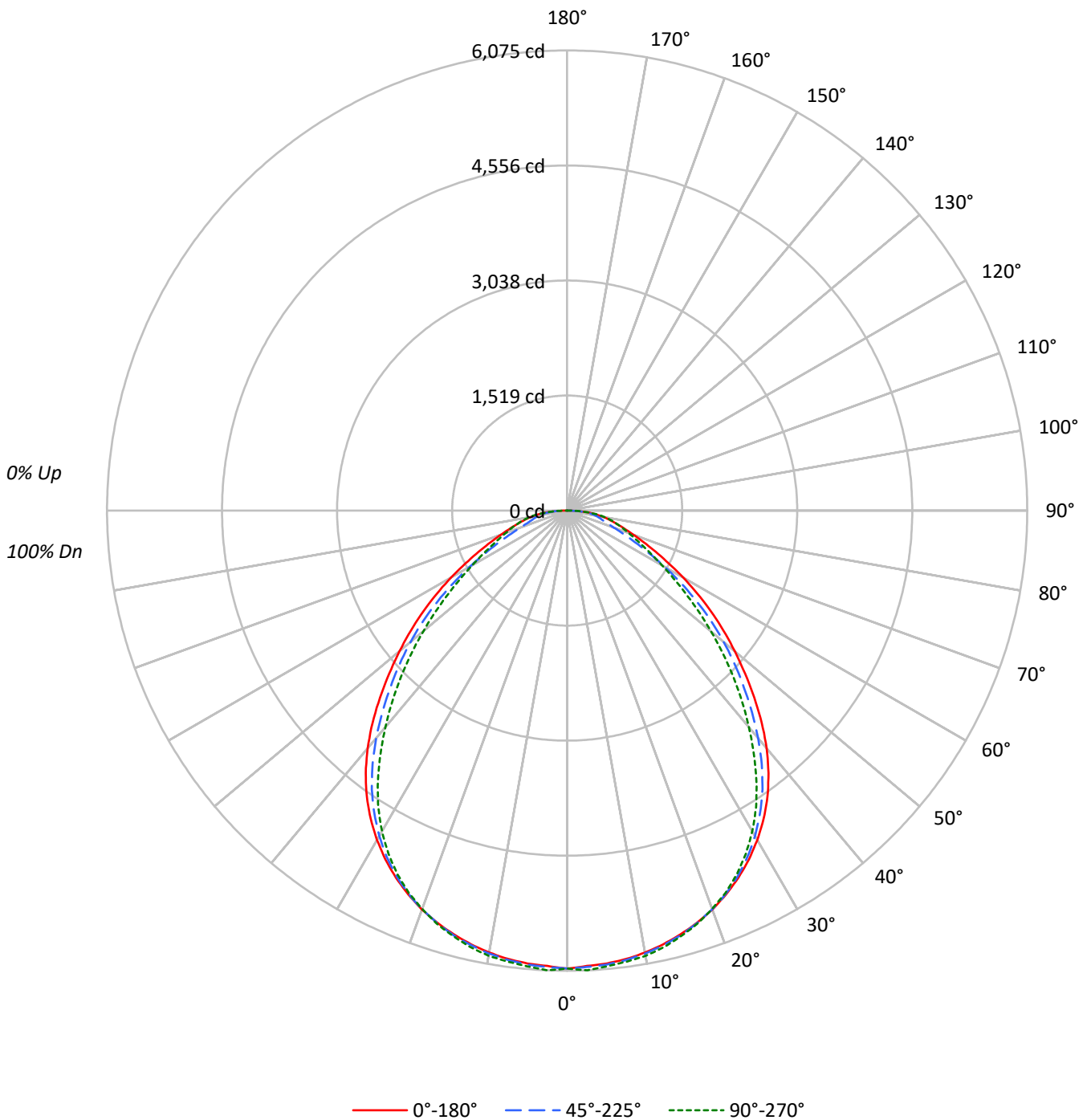
Lumens per Lamp: N/A  
Luminaire Lumens: 13888.0 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30					29				

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

	0°	45°	90°
0°	8134	8134	8134
5°	8106	8124	8157
10°	8094	8113	8154
15°	8067	8083	8102
20°	8025	8019	8013
25°	7938	7910	7866
30°	7801	7706	7594
35°	7574	7384	7156
40°	7197	6888	6558
45°	6649	6278	5898
50°	6044	5653	5188
55°	5435	4894	4485
60°	4756	4000	3891
65°	4101	3145	3512
70°	3656	2567	3385
75°	3502	2506	3538
80°	3788	2964	3941
85°	4253	3568	4295



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.0	4.1
10°-20°	1639.8	11.8
20°-30°	2453.0	17.7
30°-40°	2798.7	20.2
40°-50°	2547.6	18.3
50°-60°	1870.7	13.5
60°-70°	1104.6	8.0
70°-80°	633.0	4.6
80°-90°	267.6	1.9
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°	4665.8	33.6
0°-40°	7464.5	53.7
0°-60°	11882.8	85.6
0°-90°	13888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13888.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6046	6046	6046	6046	6046	
5°	6001	6039	6015	6039	6040	571
15°	5791	5823	5803	5823	5817	1634
25°	5347	5366	5328	5326	5298	2461
35°	4611	4589	4495	4418	4357	2873
45°	3494	3474	3299	3151	3100	2693
55°	2317	2210	2086	1935	1912	2072
65°	1288	1124	988	1057	1103	1296
75°	674	578	482	629	680	726
85°	276	254	231	273	278	288
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6045.7	6045.7	6045.7	6045.7	6045.7
2.5°	6017.7	6052.5	6030.7	6054.5	6075.0
5°	6001.4	6038.9	6015.0	6038.9	6039.5
7.5°	5971.4	6006.1	5983.0	6008.9	6006.1
10°	5924.3	5959.1	5938.0	5965.9	5968.0
12.5°	5864.3	5897.7	5875.9	5908.0	5902.5
15°	5791.4	5823.4	5803.0	5823.4	5816.6
17.5°	5705.5	5734.8	5708.2	5730.7	5719.1
20°	5604.5	5629.1	5600.5	5621.6	5596.4
22.5°	5483.9	5505.7	5475.7	5487.3	5461.4
25°	5346.8	5365.9	5328.4	5326.4	5298.4
27.5°	5194.1	5204.3	5156.6	5140.2	5108.2
30°	5020.9	5023.6	4960.2	4929.5	4888.0
32.5°	4826.6	4819.8	4738.6	4693.0	4641.8
35°	4611.1	4588.6	4495.2	4418.2	4356.8
37.5°	4367.7	4332.3	4220.5	4106.6	4048.0
40°	4097.7	4056.1	3921.8	3780.7	3733.6
42.5°	3803.9	3768.4	3610.2	3463.0	3416.6
45°	3494.3	3473.9	3299.3	3151.4	3099.5
47.5°	3184.8	3169.8	2999.3	2848.6	2785.9
50°	2887.5	2854.8	2700.7	2535.7	2478.4
52.5°	2599.1	2532.3	2396.6	2227.5	2185.2
55°	2316.8	2209.8	2086.4	1935.0	1911.8
57.5°	2037.3	1898.9	1778.9	1665.7	1665.0
60°	1767.3	1609.1	1486.4	1427.0	1446.1
62.5°	1514.3	1352.0	1219.1	1223.2	1258.0
65°	1288.0	1124.3	988.0	1056.8	1103.2
67.5°	1093.6	937.5	799.1	927.3	971.6
70°	929.3	788.2	652.5	812.7	860.5
72.5°	790.9	672.3	550.2	717.3	765.7
75°	673.6	577.5	482.0	628.6	680.5
77.5°	578.2	493.0	432.3	544.1	598.0
80°	488.9	413.9	382.5	462.3	508.6
82.5°	387.3	335.5	317.0	375.7	399.5
85°	275.5	254.3	231.1	272.7	278.2
87.5°	151.4	156.8	129.5	156.8	157.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)