

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-LD5-15HE-W-CLWG-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-W-CLWG-UNV-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

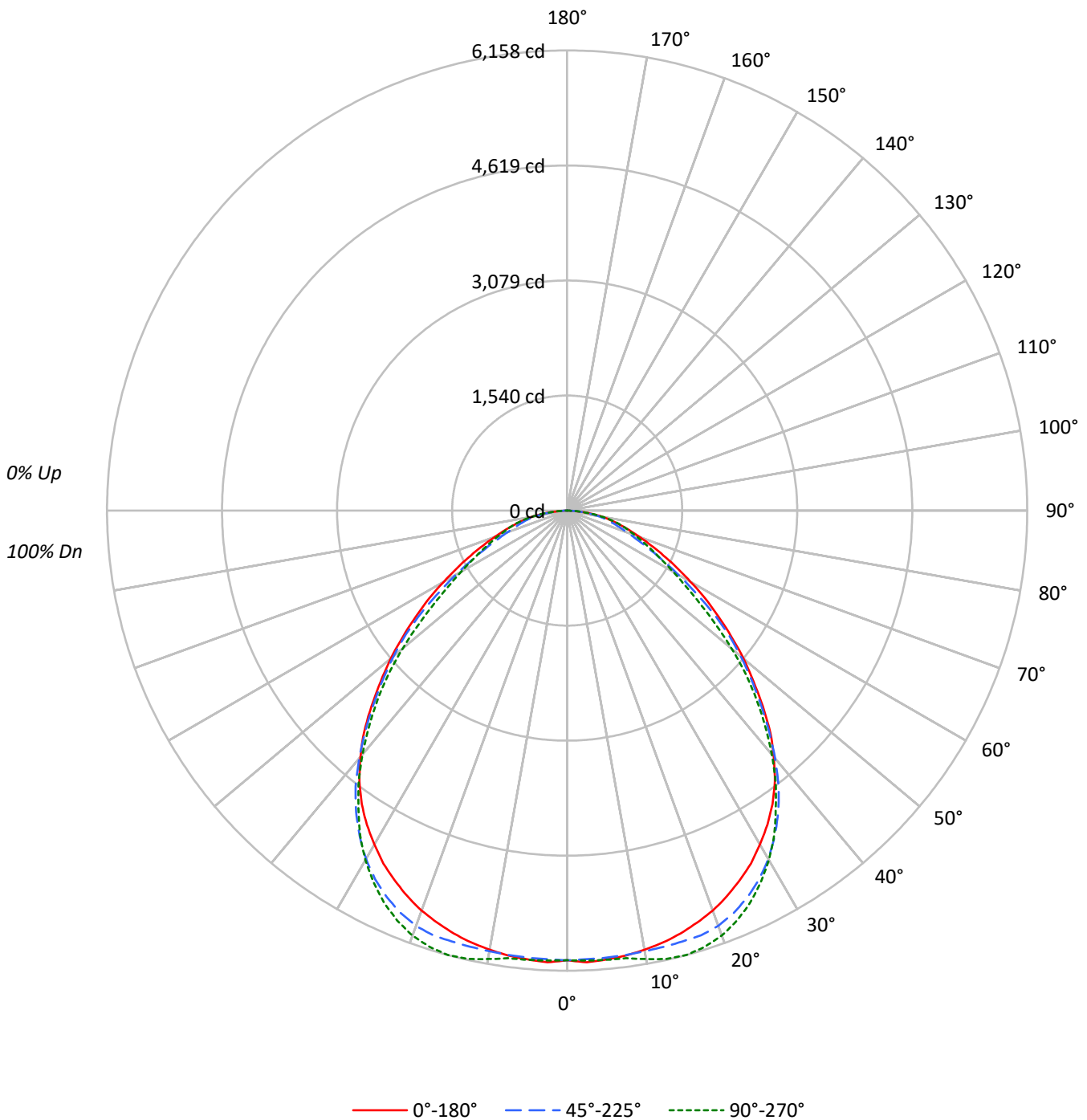
Lumens per Lamp: N/A  
Luminaire Lumens: 15008.0 lumens  
Efficiency: N/A  
Efficacy: 163.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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																		
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	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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86																												
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																												
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63																												
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55																												
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48																												
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42																												
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38																												
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34																												
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31																												
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28																												

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

	0°	45°	90°
0°	8097	8097	8097
5°	8145	8111	8151
10°	8152	8179	8326
15°	8162	8316	8577
20°	8156	8468	8665
25°	8107	8475	8600
30°	8014	8363	8390
35°	7870	8092	7995
40°	7560	7606	7486
45°	7044	6970	6828
50°	6449	6345	6020
55°	5793	5578	5090
60°	5138	4616	4394
65°	4527	3835	3988
70°	4048	3328	3798
75°	3792	3236	3841
80°	3692	3271	3656
85°	2947	2587	2683



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.3	3.8
10°-20°	1688.6	11.3
20°-30°	2597.6	17.3
30°-40°	3031.6	20.2
40°-50°	2817.2	18.8
50°-60°	2088.2	13.9
60°-70°	1276.5	8.5
70°-80°	727.1	4.8
80°-90°	208.0	1.4
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
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0°-30°	4859.5	32.4
0°-40°	7891.1	52.6
0°-60°	12796.4	85.3
0°-90°	15008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6018	6018	6018	6018	6018	
5°	6030	6002	6005	6001	6035	574
15°	5860	5856	5970	6088	6158	1654
25°	5460	5502	5709	5757	5793	2515
35°	4792	4829	4927	4886	4868	2986
45°	3702	3724	3663	3606	3589	2853
55°	2470	2407	2378	2209	2170	2216
65°	1422	1291	1204	1237	1253	1423
75°	730	684	622	709	739	781
85°	191	186	168	174	174	220
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6017.8	6017.8	6017.8	6017.8	6017.8
2.5°	6050.4	6016.2	6010.0	5996.0	6027.1
5°	6030.2	6002.3	6005.4	6000.7	6034.8
7.5°	6006.9	5986.7	5999.1	5997.6	6042.6
10°	5966.6	5955.7	5986.7	6020.9	6093.8
12.5°	5921.5	5910.7	5979.0	6065.9	6145.1
15°	5859.5	5856.3	5969.7	6087.6	6157.5
17.5°	5781.8	5786.5	5958.8	6059.7	6121.8
20°	5696.5	5704.2	5913.8	5996.0	6051.9
22.5°	5586.3	5612.7	5826.9	5895.2	5938.6
25°	5460.5	5502.5	5708.9	5757.0	5792.7
27.5°	5325.5	5367.4	5563.0	5587.8	5608.0
30°	5157.9	5216.9	5382.9	5386.0	5400.0
32.5°	4987.1	5039.9	5167.2	5153.2	5156.3
35°	4791.6	4828.8	4926.6	4886.2	4867.6
37.5°	4566.5	4586.7	4648.8	4588.2	4585.1
40°	4304.2	4330.6	4330.6	4246.7	4262.3
42.5°	4024.8	4034.1	3995.3	3916.1	3928.6
45°	3701.9	3723.7	3663.1	3605.7	3588.6
47.5°	3382.2	3403.9	3340.3	3273.5	3244.0
50°	3081.1	3070.2	3031.4	2918.1	2876.2
52.5°	2769.1	2734.9	2719.4	2553.3	2505.2
55°	2469.5	2407.4	2377.9	2208.7	2169.9
57.5°	2191.7	2079.9	2024.0	1892.1	1876.6
60°	1909.2	1783.4	1715.2	1629.8	1632.9
62.5°	1653.1	1521.1	1438.9	1414.0	1424.9
65°	1421.8	1291.4	1204.5	1237.1	1252.6
67.5°	1212.2	1105.1	1007.4	1083.4	1098.9
70°	1029.1	943.7	845.9	957.7	965.5
72.5°	877.0	807.1	724.9	830.4	847.5
75°	729.5	684.5	622.4	709.3	738.8
77.5°	600.7	565.0	529.3	582.1	614.7
80°	476.5	440.8	422.2	450.1	471.9
82.5°	336.8	313.5	294.9	315.1	326.0
85°	190.9	186.3	167.6	173.8	173.8
87.5°	43.5	49.7	55.9	51.2	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)