

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-N-CLI-UNV-L735-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 (P23769)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15SE-N-CLI-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

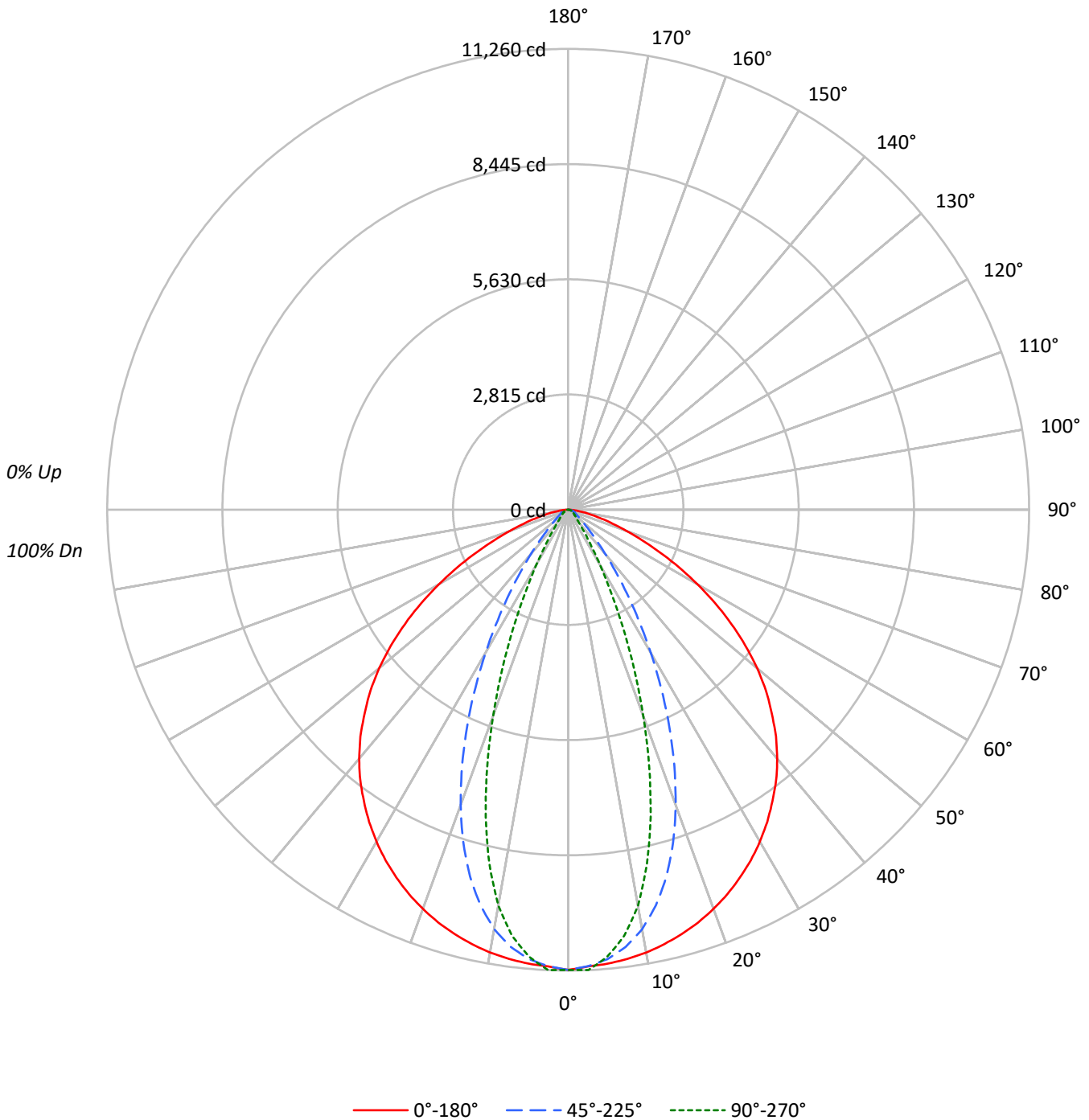
Lumens per Lamp: N/A  
Luminaire Lumens: 12310.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-15SE-N-CLI-UNV-L735-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CLI-UNV-L735-ED1-U

**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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	15129	15129	15129
5°	15038	14889	14810
10°	15013	14214	13413
15°	14953	12921	10833
20°	14863	10994	7678
25°	14730	8669	4639
30°	14551	6257	2384
35°	14288	4091	1191
40°	13949	2457	695
45°	13370	1467	519
50°	12610	960	436
55°	11413	728	381
60°	9808	620	347
65°	7889	566	328
70°	5943	606	326
75°	4372	575	336
80°	3199	573	367
85°	2396	695	475



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CLI-UNV-L735-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1035.5	8.4
10°-20°	2576.2	20.9
20°-30°	2853.5	23.2
30°-40°	2286.2	18.6
40°-50°	1632.0	13.3
50°-60°	1048.3	8.5
60°-70°	568.1	4.6
70°-80°	242.8	2.0
80°-90°	67.3	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°	6465.3	52.5
0°-40°	8751.4	71.1
0°-60°	11431.7	92.9
0°-90°	12310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12310.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11244	11244	11244	11244	11244	
5°	11134	11176	11023	10988	10965	###
15°	10734	10399	9276	8197	7777	3029
25°	9922	8749	5840	3805	3125	4571
35°	8699	6292	2490	1004	725	5439
45°	7026	3632	771	328	273	5416
55°	4865	1624	310	191	162	4336
65°	2478	667	178	123	103	2481
75°	841	244	111	77	65	934
85°	155	65	45	37	31	190
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CLI-UNV-L735-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11244.3	11244.3	11244.3	11244.3	11244.3
2.5°	11170.3	11240.1	11164.9	11211.7	11259.7
5°	11134.1	11175.6	11023.4	10988.4	10965.3
7.5°	11071.4	11059.5	10773.5	10588.1	10498.7
10°	10988.4	10892.5	10403.9	9996.4	9817.6
12.5°	10870.0	10672.2	9903.5	9188.0	8884.8
15°	10734.4	10398.6	9275.7	8197.2	7776.7
17.5°	10572.1	10078.8	8525.3	7134.7	6579.8
20°	10380.2	9692.6	7678.4	6005.9	5362.2
22.5°	10165.8	9247.3	6771.7	4880.7	4190.1
25°	9921.8	8748.6	5839.5	3804.6	3124.7
27.5°	9658.3	8194.8	4912.6	2842.8	2222.7
30°	9365.7	7595.5	4027.2	2049.7	1534.5
32.5°	9046.5	6958.2	3204.6	1441.5	1049.5
35°	8698.8	6292.0	2490.4	1004.4	724.9
37.5°	8342.9	5612.1	1881.0	710.1	520.0
40°	7942.0	4934.6	1398.9	520.0	395.6
42.5°	7511.4	4270.1	1035.2	400.4	320.4
45°	7026.4	3632.2	771.1	328.1	273.0
47.5°	6556.1	3037.6	585.7	279.5	237.5
50°	6024.3	2501.0	458.4	244.0	208.5
52.5°	5459.9	2029.0	371.9	215.0	183.6
55°	4865.3	1623.9	310.3	190.7	162.3
57.5°	4263.0	1286.3	265.3	170.0	144.5
60°	3644.7	1028.7	230.4	152.2	129.1
62.5°	3041.2	822.6	201.4	136.8	115.5
65°	2477.9	666.9	177.7	122.6	103.1
67.5°	1957.4	527.1	165.8	110.2	93.0
70°	1510.8	410.4	154.0	98.3	82.9
72.5°	1144.8	315.1	136.2	87.7	73.4
75°	841.0	244.0	110.7	77.0	64.6
77.5°	601.7	187.7	90.0	66.9	55.7
80°	412.8	139.8	74.0	57.4	47.4
82.5°	268.3	98.9	59.8	47.4	39.1
85°	155.2	64.6	45.0	37.3	30.8
87.5°	66.9	35.5	30.8	27.8	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)