

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-N-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 (P23767)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-N-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

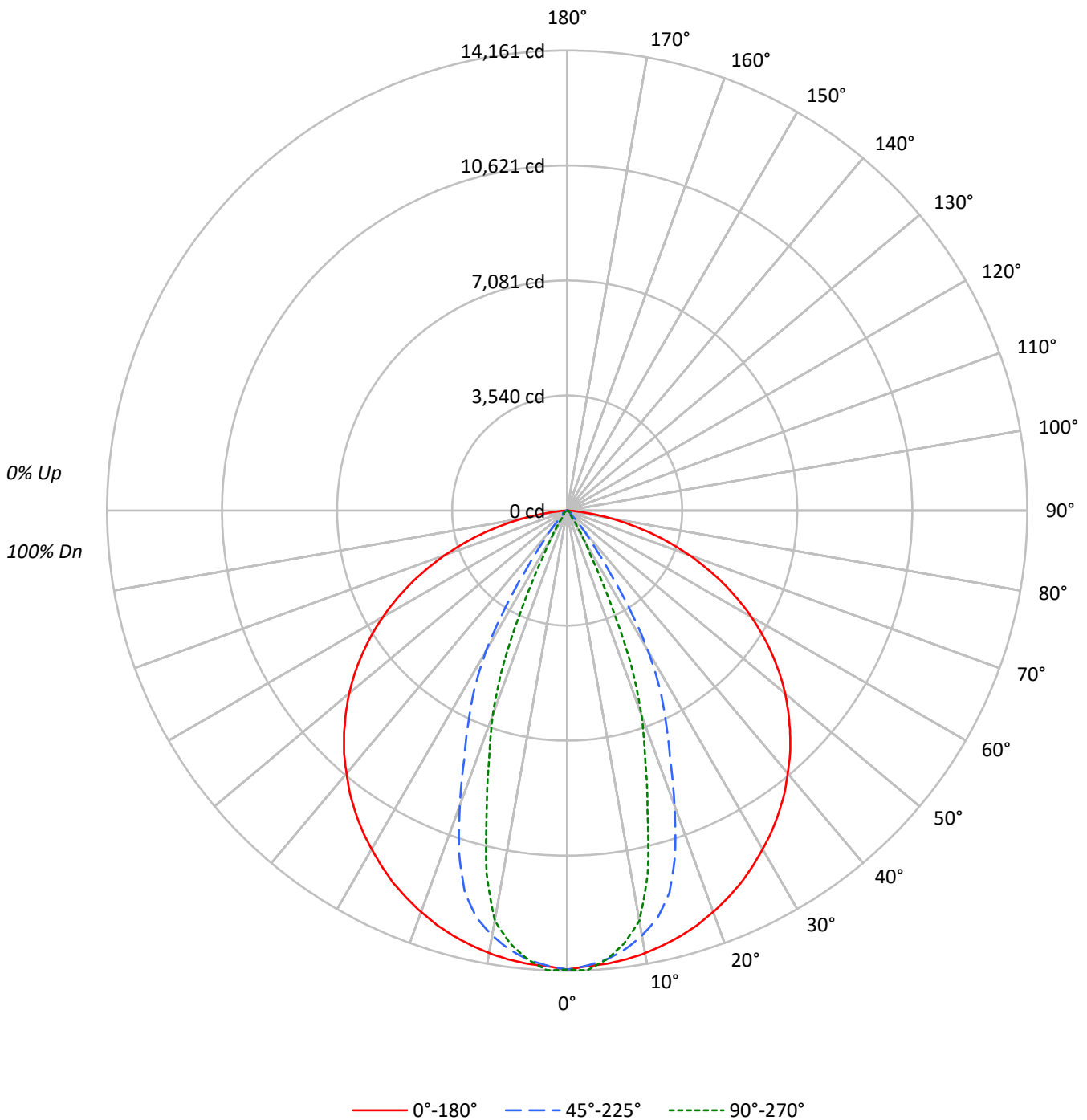
Lumens per Lamp: N/A  
Luminaire Lumens: 15015.0 lumens  
Efficiency: N/A  
Efficacy: 163.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.8  
Input Voltage (V): NR  
Input Current (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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

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

	0°	45°	90°
0°	19007	19007	19007
5°	18906	18739	18731
10°	18894	18138	17502
15°	18867	16945	13320
20°	18823	13814	9588
25°	18776	10681	4723
30°	18692	7763	1532
35°	18648	3444	394
40°	18551	1399	266
45°	18468	393	283
50°	18324	279	314
55°	18060	331	134
60°	17614	369	81
65°	16890	235	96
70°	15691	209	119
75°	13726	157	164
80°	10263	193	234
85°	5084	249	312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1311.0	8.7
10°-20°	3278.1	21.8
20°-30°	3550.7	23.6
30°-40°	2629.5	17.5
40°-50°	1893.9	12.6
50°-60°	1172.7	7.8
60°-70°	721.2	4.8
70°-80°	380.2	2.5
80°-90°	77.8	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°	8139.8	54.2
0°-40°	10769.3	71.7
0°-60°	13835.8	92.1
0°-90°	15015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15015.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14127	14127	14127	14127	14127	
5°	13998	14050	13874	13884	13868	###
15°	13545	13230	12165	10345	9562	3824
25°	12647	11584	7195	4526	3181	5827
35°	11353	8004	2097	493	240	7103
45°	9706	4509	206	149	148	7485
55°	7699	929	141	128	57	6873
65°	5305	98	74	47	30	5234
75°	2640	23	30	40	32	2789
85°	329	9	16	24	20	498
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14126.8	14126.8	14126.8	14126.8	14126.8
2.5°	14036.1	14125.4	14019.9	14098.6	14161.1
5°	13997.8	14049.5	13874.1	13884.2	13868.1
7.5°	13930.6	13918.5	13623.4	13494.4	13438.0
10°	13829.1	13749.1	13276.0	13006.5	12810.3
12.5°	13698.0	13519.3	12842.5	11985.7	11453.4
15°	13544.8	13230.3	12165.1	10345.3	9562.3
17.5°	13362.0	12916.5	11057.6	8670.6	7971.6
20°	13146.3	12566.3	9647.7	7376.9	6696.1
22.5°	12905.7	12140.3	8278.1	6131.0	5159.9
25°	12647.0	11584.5	7194.8	4526.1	3181.4
27.5°	12347.9	10870.1	6178.7	2666.0	1623.6
30°	12031.4	10009.9	4996.6	1434.1	985.9
32.5°	11712.2	9034.8	3535.6	895.8	559.1
35°	11353.3	8003.9	2096.7	493.3	239.9
37.5°	10979.0	7059.0	1239.2	224.5	153.9
40°	10561.7	6195.5	796.4	149.2	151.2
42.5°	10158.4	5390.4	448.2	147.2	149.9
45°	9705.5	4509.3	206.3	149.2	148.5
47.5°	9237.1	3596.0	133.7	150.5	150.5
50°	8753.9	2571.2	133.1	153.9	149.9
52.5°	8243.8	1604.1	138.4	153.2	123.0
55°	7698.8	928.7	141.1	127.7	57.1
57.5°	7134.3	547.7	142.5	73.3	32.3
60°	6545.6	303.1	137.1	54.4	30.2
62.5°	5938.8	144.5	108.2	51.1	29.6
65°	5305.0	98.1	73.9	47.0	30.2
67.5°	4647.1	75.9	58.5	44.4	30.9
70°	3988.5	56.5	53.1	44.4	30.2
72.5°	3319.2	38.3	44.4	45.0	30.2
75°	2640.4	22.8	30.2	39.6	31.6
77.5°	1967.7	14.1	23.5	41.0	38.3
80°	1324.6	12.1	24.9	38.3	30.2
82.5°	777.5	10.8	24.2	29.6	24.2
85°	329.3	8.7	16.1	24.2	20.2
87.5°	61.8	7.4	12.8	19.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)