

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-CL-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 (P23768)  
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-CL-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

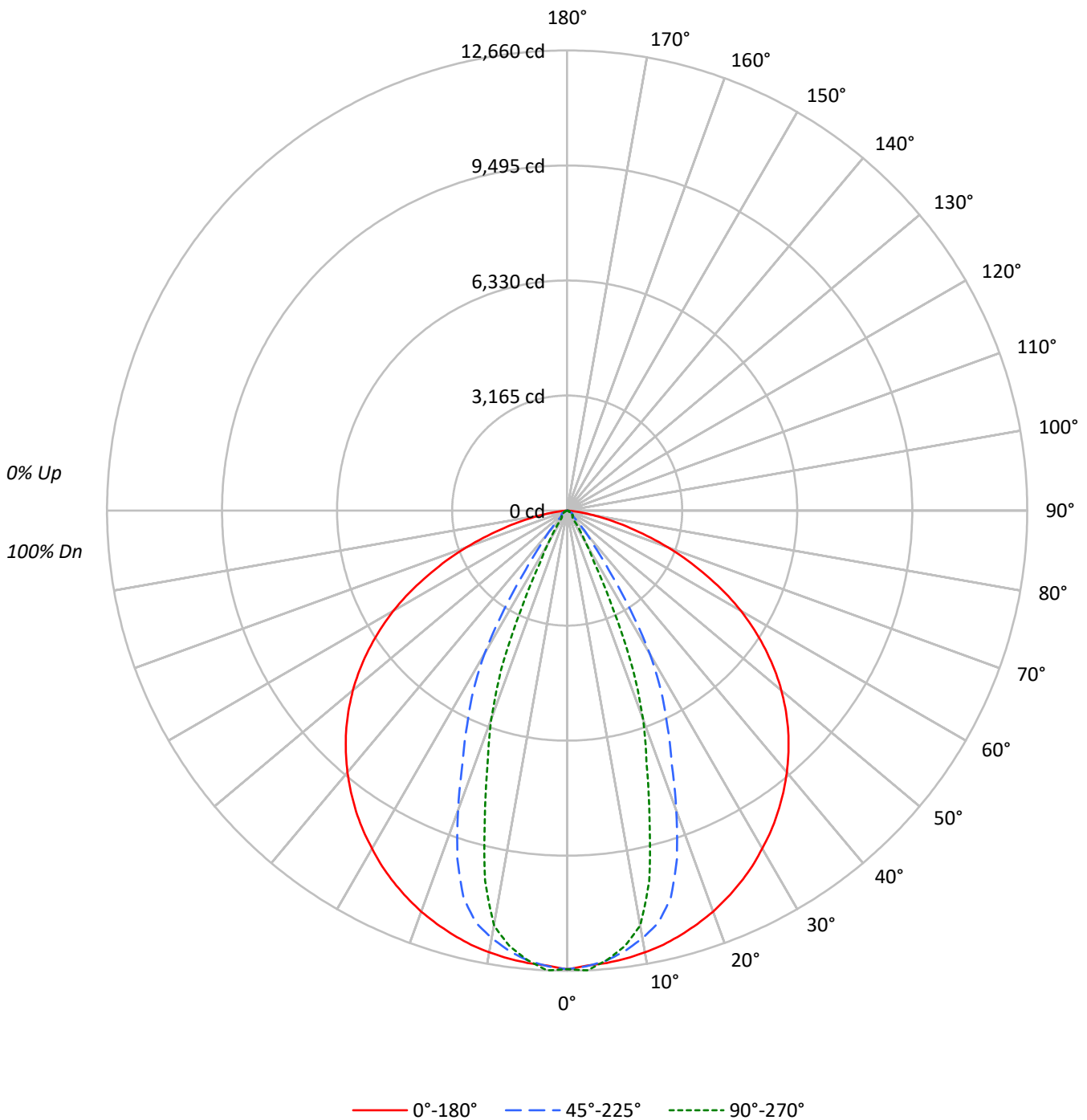
Lumens per Lamp: N/A  
Luminaire Lumens: 13495.0 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

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

	0°	45°	90°
0°	16978	16978	16978
5°	16873	16785	16773
10°	16862	16321	15840
15°	16843	15348	12179
20°	16810	12560	8736
25°	16757	9677	4439
30°	16678	7062	1615
35°	16618	3243	562
40°	16516	1472	388
45°	16369	549	393
50°	16108	399	414
55°	15631	420	315
60°	14854	448	278
65°	13471	341	226
70°	11550	246	208
75°	8828	218	198
80°	5523	205	215
85°	1744	239	289



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1174.7	8.7
10°-20°	2959.3	21.9
20°-30°	3222.8	23.9
30°-40°	2410.8	17.9
40°-50°	1733.4	12.8
50°-60°	1064.6	7.9
60°-70°	612.6	4.5
70°-80°	273.4	2.0
80°-90°	43.4	0.3
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°	7356.8	54.5
0°-40°	9767.6	72.4
0°-60°	12565.6	93.1
0°-90°	13495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12618	12618	12618	12618	12618	
5°	12493	12552	12428	12439	12419	###
15°	12091	11860	11018	9463	8743	3413
25°	11287	10478	6518	4182	2990	5203
35°	10117	7256	1974	580	342	6329
45°	8603	4077	289	214	207	6627
55°	6664	847	179	173	134	5941
65°	4231	93	107	89	71	4188
75°	1698	56	42	43	38	1843
85°	113	11	16	20	19	225
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12618.2	12618.2	12618.2	12618.2	12618.2
2.5°	12530.4	12612.4	12543.3	12605.3	12660.2
5°	12492.9	12551.7	12427.7	12439.3	12418.7
7.5°	12428.3	12442.6	12218.5	12132.0	12090.0
10°	12341.8	12303.7	11946.0	11740.0	11593.5
12.5°	12232.7	12106.8	11607.0	10871.6	10433.1
15°	12091.3	11859.5	11018.1	9462.7	8743.4
17.5°	11922.8	11601.2	10043.1	7886.5	7264.1
20°	11740.0	11315.8	8771.8	6705.5	6101.2
22.5°	11524.4	10951.0	7517.8	5576.9	4747.2
25°	11287.4	10477.7	6518.3	4182.2	2990.2
27.5°	11031.7	9853.3	5593.0	2564.7	1616.8
30°	10734.7	9093.3	4545.7	1439.3	1039.6
32.5°	10444.8	8207.4	3247.2	958.9	664.4
35°	10117.4	7256.3	1974.5	580.5	342.2
37.5°	9770.7	6391.7	1235.9	315.7	236.3
40°	9403.3	5571.7	838.1	224.1	220.8
42.5°	9010.7	4829.8	525.0	213.1	220.2
45°	8602.6	4076.9	288.6	213.7	206.6
47.5°	8159.7	3259.5	201.5	202.1	201.5
50°	7695.4	2338.1	190.5	199.5	197.6
52.5°	7195.0	1451.5	191.1	195.0	175.0
55°	6663.6	847.2	178.9	173.0	134.3
57.5°	6105.1	528.2	175.0	142.7	120.7
60°	5520.1	278.9	166.6	128.5	103.3
62.5°	4897.0	137.5	133.7	109.8	84.6
65°	4231.2	93.0	107.2	89.1	71.0
67.5°	3588.1	83.9	80.7	73.0	62.0
70°	2936.0	76.8	62.6	63.9	52.9
72.5°	2296.1	69.7	50.4	54.9	44.6
75°	1698.2	56.2	42.0	43.3	38.1
77.5°	1181.6	43.9	32.9	36.8	35.5
80°	712.8	27.8	26.5	30.3	27.8
82.5°	345.4	18.1	20.7	23.9	22.0
85°	113.0	11.0	15.5	20.0	18.7
87.5°	14.2	6.5	12.9	17.4	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)