

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-CLWG-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15SE-W-CLWG-UNV-L735-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**

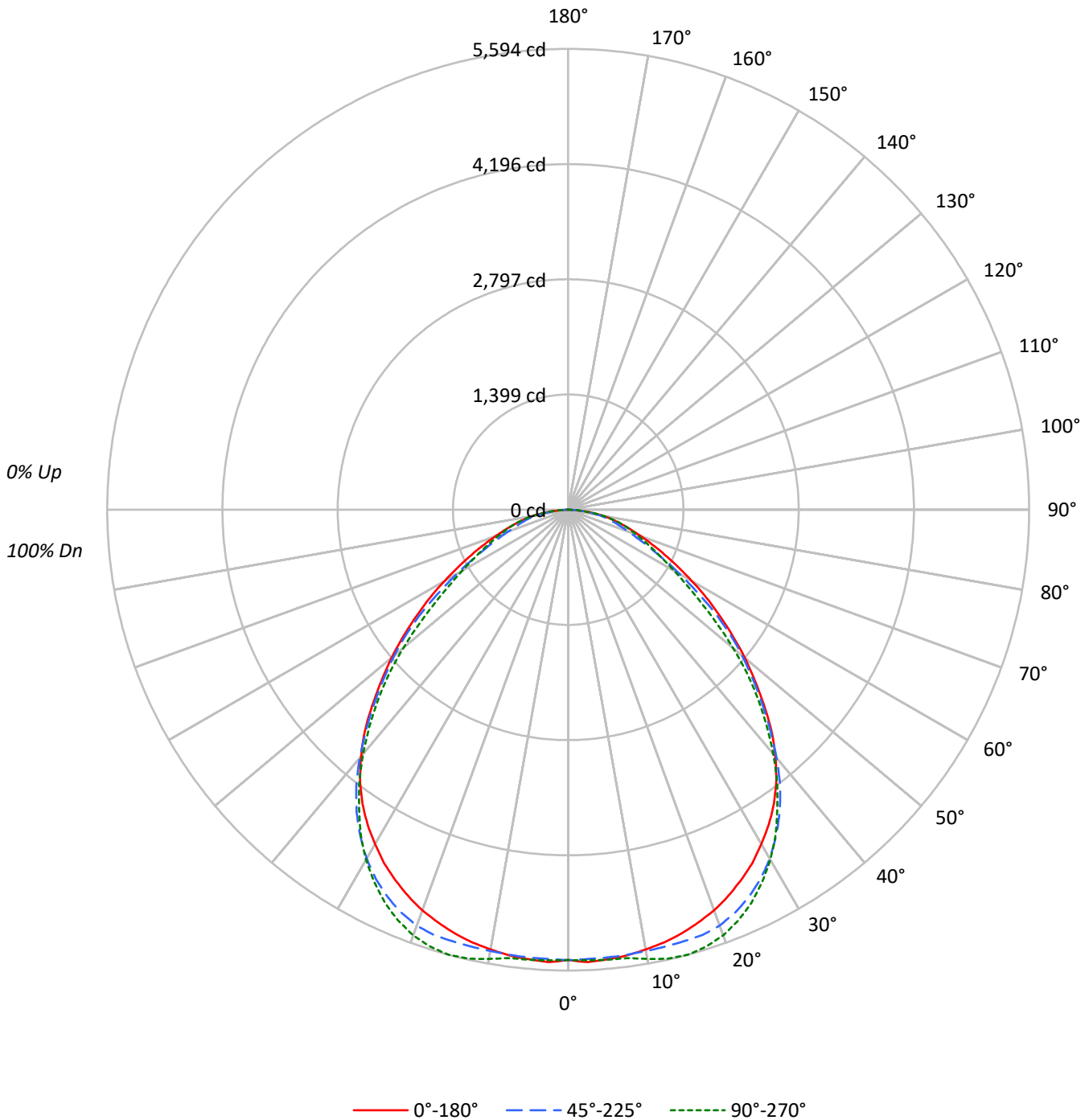
Lumens per Lamp: N/A  
Luminaire Lumens: 13635.0 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	7356	7356	7356
5°	7399	7369	7405
10°	7406	7431	7564
15°	7415	7555	7792
20°	7410	7693	7873
25°	7365	7700	7813
30°	7280	7598	7622
35°	7150	7352	7264
40°	6868	6910	6801
45°	6400	6333	6204
50°	5859	5765	5470
55°	5263	5068	4624
60°	4668	4193	3992
65°	4112	3484	3623
70°	3678	3023	3450
75°	3446	2940	3489
80°	3354	2972	3322
85°	2678	2351	2438



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.8	3.8
10°-20°	1534.1	11.3
20°-30°	2360.0	17.3
30°-40°	2754.3	20.2
40°-50°	2559.4	18.8
50°-60°	1897.1	13.9
60°-70°	1159.7	8.5
70°-80°	660.6	4.8
80°-90°	188.9	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
0°-30°	4414.9	32.4
0°-40°	7169.1	52.6
0°-60°	11625.7	85.3
0°-90°	13635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13635.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5467	5467	5467	5467	5467	
5°	5478	5453	5456	5452	5483	521
15°	5323	5321	5424	5531	5594	1503
25°	4961	4999	5187	5230	5263	2285
35°	4353	4387	4476	4439	4422	2712
45°	3363	3383	3328	3276	3260	2592
55°	2244	2187	2160	2007	1971	2013
65°	1292	1173	1094	1124	1138	1293
75°	663	622	566	644	671	709
85°	174	169	152	158	158	200
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5496.9	5465.8	5460.2	5447.5	5475.7
5°	5478.5	5453.1	5456.0	5451.7	5482.8
7.5°	5457.4	5439.0	5450.3	5448.9	5489.8
10°	5420.7	5410.8	5439.0	5470.1	5536.3
12.5°	5379.8	5369.9	5432.0	5511.0	5582.9
15°	5323.4	5320.6	5423.5	5530.7	5594.2
17.5°	5252.9	5257.1	5413.7	5505.3	5561.7
20°	5175.3	5182.4	5372.8	5447.5	5498.3
22.5°	5075.2	5099.2	5293.8	5355.8	5395.3
25°	4961.0	4999.1	5186.6	5230.3	5262.8
27.5°	4838.3	4876.4	5054.1	5076.6	5095.0
30°	4686.0	4739.6	4890.5	4893.3	4906.0
32.5°	4530.9	4578.8	4694.5	4681.8	4684.6
35°	4353.2	4387.0	4475.9	4439.2	4422.3
37.5°	4148.7	4167.1	4223.5	4168.5	4165.7
40°	3910.4	3934.4	3934.4	3858.2	3872.3
42.5°	3656.6	3665.0	3629.8	3557.9	3569.1
45°	3363.3	3383.0	3328.0	3275.8	3260.3
47.5°	3072.8	3092.5	3034.7	2974.1	2947.3
50°	2799.2	2789.3	2754.1	2651.1	2613.1
52.5°	2515.7	2484.7	2470.6	2319.7	2276.0
55°	2243.6	2187.2	2160.4	2006.7	1971.4
57.5°	1991.2	1889.6	1838.9	1719.0	1704.9
60°	1734.5	1620.3	1558.2	1480.7	1483.5
62.5°	1501.8	1382.0	1307.2	1284.7	1294.5
65°	1291.7	1173.3	1094.3	1123.9	1138.0
67.5°	1101.3	1004.0	915.2	984.3	998.4
70°	934.9	857.4	768.5	870.1	877.1
72.5°	796.7	733.3	658.6	754.4	770.0
75°	662.8	621.9	565.5	644.4	671.2
77.5°	545.7	513.3	480.9	528.8	558.4
80°	432.9	400.5	383.6	409.0	428.7
82.5°	306.0	284.9	267.9	286.3	296.1
85°	173.5	169.2	152.3	157.9	157.9
87.5°	39.5	45.1	50.8	46.5	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)