

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-L740-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-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

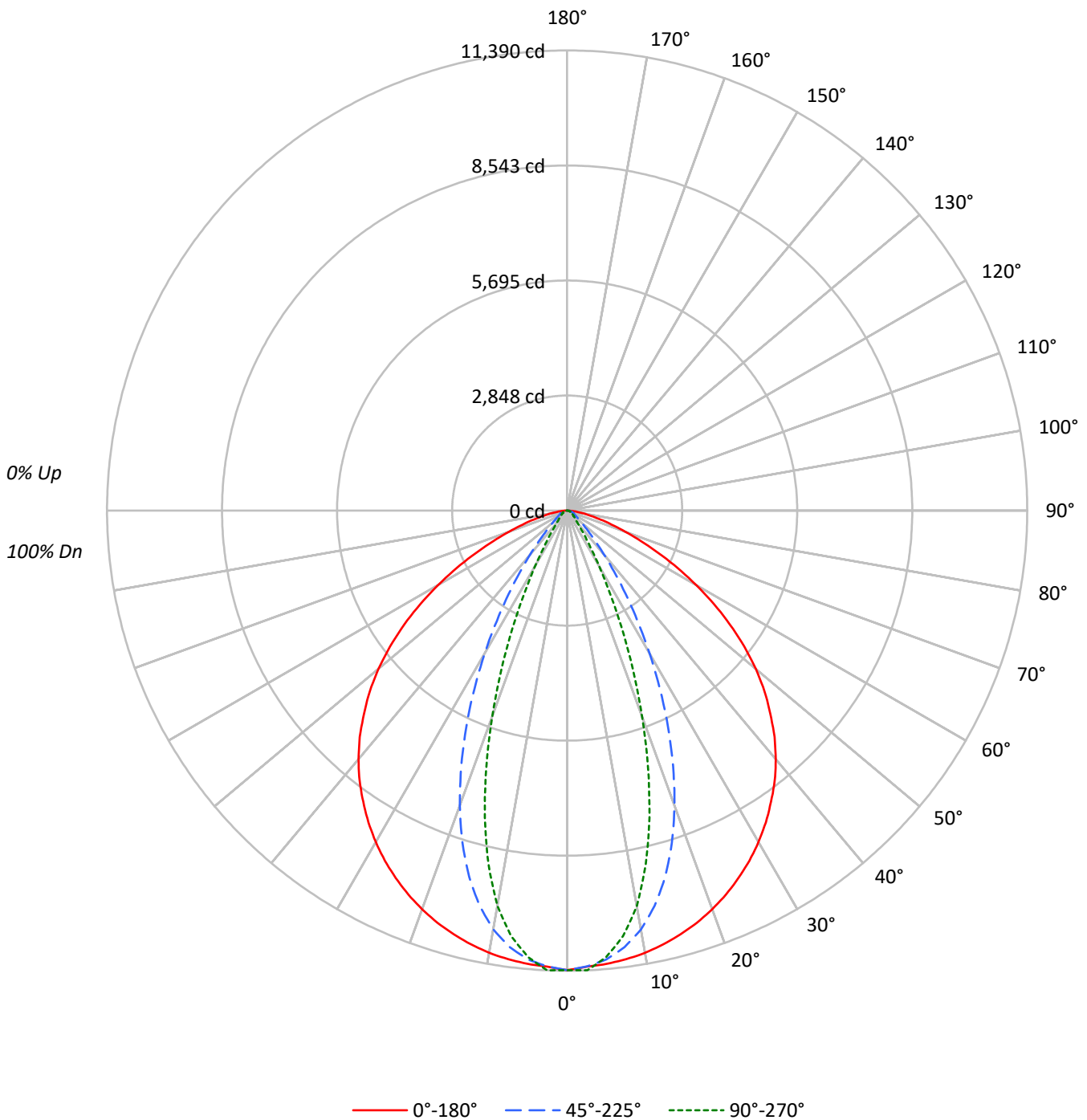
Lumens per Lamp: N/A  
Luminaire Lumens: 12453.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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-L740-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CLI-UNV-L740-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°	15305	15305	15305
5°	15213	15061	14982
10°	15187	14379	13569
15°	15126	13071	10959
20°	15035	11122	7767
25°	14901	8770	4693
30°	14720	6330	2412
35°	14454	4138	1204
40°	14111	2485	703
45°	13525	1484	526
50°	12757	971	441
55°	11546	736	385
60°	9922	627	351
65°	7981	572	332
70°	6013	613	330
75°	4423	582	339
80°	3236	580	371
85°	2424	702	482



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CLI-UNV-L740-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1047.6	8.4
10°-20°	2606.1	20.9
20°-30°	2886.7	23.2
30°-40°	2312.7	18.6
40°-50°	1651.0	13.3
50°-60°	1060.5	8.5
60°-70°	574.7	4.6
70°-80°	245.6	2.0
80°-90°	68.1	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°	6540.4	52.5
0°-40°	8853.1	71.1
0°-60°	11564.5	92.9
0°-90°	12453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11375	11375	11375	11375	11375	
5°	11264	11305	11151	11116	11093	###
15°	10859	10519	9383	8292	7867	3064
25°	10037	8850	5907	3849	3161	4624
35°	8800	6365	2519	1016	733	5502
45°	7108	3674	780	332	276	5479
55°	4922	1643	314	193	164	4386
65°	2507	675	180	124	104	2510
75°	851	247	112	78	65	945
85°	157	65	46	38	31	192
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CLI-UNV-L740-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11374.9	11374.9	11374.9	11374.9	11374.9
2.5°	11300.0	11370.7	11294.6	11342.0	11390.5
5°	11263.5	11305.4	11151.4	11116.1	11092.7
7.5°	11200.0	11188.0	10898.6	10711.1	10620.6
10°	11116.1	11019.0	10524.8	10112.6	9931.6
12.5°	10996.3	10796.2	10018.5	9294.8	8988.0
15°	10859.1	10519.4	9383.4	8292.4	7867.1
17.5°	10694.9	10195.8	8624.4	7217.6	6656.2
20°	10500.8	9805.2	7767.6	6075.7	5424.4
22.5°	10283.9	9354.7	6850.4	4937.4	4238.8
25°	10037.1	8850.2	5907.3	3848.8	3161.0
27.5°	9770.5	8290.0	4969.7	2875.8	2248.5
30°	9474.5	7683.7	4074.0	2073.6	1552.3
32.5°	9151.6	7039.1	3241.8	1458.3	1061.6
35°	8799.9	6365.1	2519.3	1016.1	733.3
37.5°	8439.8	5677.3	1902.8	718.3	526.0
40°	8034.2	4991.9	1415.1	526.0	400.2
42.5°	7598.7	4319.7	1047.3	405.0	324.1
45°	7108.0	3674.4	780.1	331.9	276.2
47.5°	6632.3	3072.9	592.5	282.8	240.2
50°	6094.3	2530.1	463.7	246.8	210.9
52.5°	5523.3	2052.6	376.2	217.5	185.7
55°	4921.8	1642.8	313.9	192.9	164.2
57.5°	4312.5	1301.3	268.4	171.9	146.2
60°	3687.0	1040.7	233.1	154.0	130.6
62.5°	3076.5	832.2	203.7	138.4	116.8
65°	2506.7	674.6	179.7	124.0	104.2
67.5°	1980.1	533.2	167.8	111.4	94.1
70°	1528.4	415.2	155.8	99.5	83.9
72.5°	1158.1	318.7	137.8	88.7	74.3
75°	850.8	246.8	112.0	77.9	65.3
77.5°	608.7	189.9	91.1	67.7	56.3
80°	417.6	141.4	74.9	58.1	47.9
82.5°	271.4	100.1	60.5	47.9	39.5
85°	157.0	65.3	45.5	37.7	31.2
87.5°	67.7	35.9	31.2	28.2	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)