

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-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CLWG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

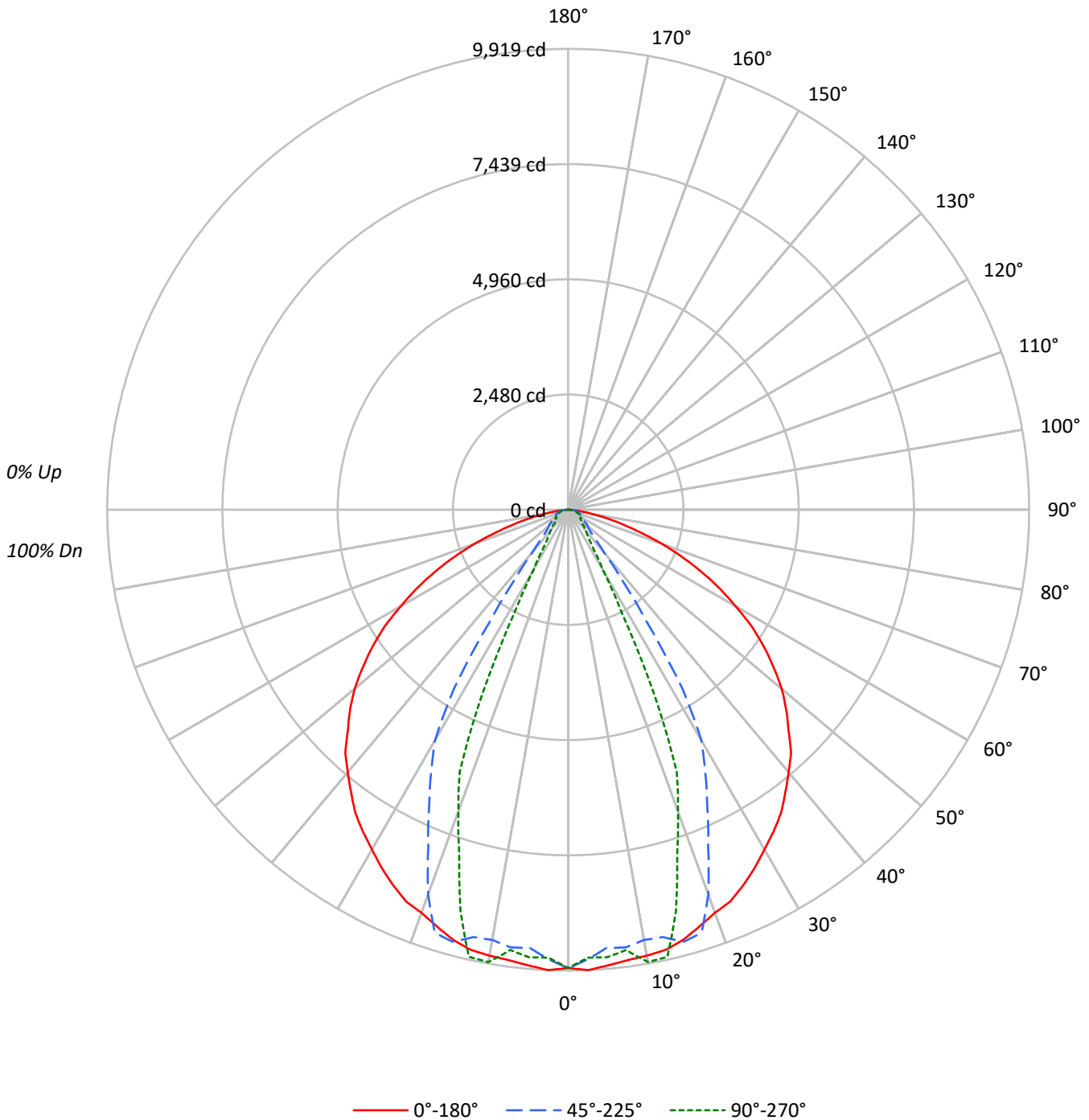
Lumens per Lamp: N/A
Luminaire Lumens: 13262.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13273	13273	13273
5°	13295	12789	13058
10°	13314	12850	13510
15°	13344	13414	12467
20°	13218	12616	9895
25°	13237	10518	6464
30°	13118	8910	2322
35°	13104	4827	1306
40°	12956	2104	1023
45°	12756	1301	802
50°	12557	1133	757
55°	12063	983	741
60°	11193	880	796
65°	10060	995	870
70°	8438	1070	897
75°	6307	1220	971
80°	3962	1416	1107
85°	2638	1775	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.3	6.9
10°-20°	2581.9	19.5
20°-30°	3161.6	23.8
30°-40°	2482.8	18.7
40°-50°	1841.2	13.9
50°-60°	1120.9	8.5
60°-70°	671.4	5.1
70°-80°	368.4	2.8
80°-90°	119.5	0.9
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°	6657.9	50.2
0°-40°	9140.7	68.9
0°-60°	12102.7	91.3
0°-90°	13262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9865	9865	9865	9865	9865	
5°	9844	9576	9469	9573	9668	936
15°	9580	9317	9630	9241	8950	2697
25°	8916	8944	7085	5557	4354	4104
35°	7978	7257	2939	983	795	4978
45°	6704	4814	684	518	422	5184
55°	5143	1326	419	354	316	4576
65°	3160	391	312	294	273	3122
75°	1213	247	235	204	187	1314
85°	171	134	115	106	105	208
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9864.9	9864.9	9864.9	9864.9	9864.9
2.5°	9918.8	9785.2	9682.8	9625.6	9648.9
5°	9843.7	9575.7	9468.7	9573.1	9668.1
7.5°	9778.5	9380.3	9501.3	9510.6	9560.4
10°	9745.3	9361.7	9405.5	9612.3	9888.2
12.5°	9701.4	9404.9	9420.2	9702.1	9857.6
15°	9579.7	9317.1	9629.6	9240.7	8950.1
17.5°	9402.2	9112.3	9541.8	8186.2	7791.3
20°	9231.3	8889.6	8811.2	7292.0	6911.0
22.5°	9121.0	8855.7	7871.1	6497.5	6103.9
25°	8916.2	8944.1	7084.6	5556.8	4354.1
27.5°	8690.8	8736.0	6389.1	3705.8	2494.5
30°	8443.5	8495.4	5734.9	2190.0	1494.6
32.5°	8219.5	7926.9	4580.1	1366.3	1039.1
35°	7978.1	7257.4	2938.6	983.3	795.2
37.5°	7674.3	6554.0	1860.2	777.9	667.5
40°	7376.4	5922.4	1198.0	664.2	582.4
42.5°	7097.9	5401.8	871.6	580.4	525.9
45°	6703.6	4813.5	683.5	517.9	421.5
47.5°	6362.5	4123.4	597.7	438.1	363.7
50°	5998.9	3152.7	541.2	389.6	361.7
52.5°	5567.4	2062.3	500.0	373.0	337.7
55°	5142.6	1326.4	418.9	354.4	315.8
57.5°	4683.8	841.0	369.7	343.7	329.8
60°	4159.3	567.1	327.1	325.8	295.9
62.5°	3673.9	466.1	315.8	312.5	279.9
65°	3160.0	390.9	312.5	293.9	273.3
67.5°	2646.7	335.1	282.6	268.6	250.6
70°	2144.8	306.5	271.9	265.9	228.0
72.5°	1628.9	252.6	241.3	225.4	189.5
75°	1213.3	246.7	234.7	204.1	186.8
77.5°	821.1	227.4	213.4	182.8	168.9
80°	511.3	208.8	182.8	160.2	142.9
82.5°	303.8	174.2	150.3	132.3	121.0
85°	170.9	134.3	115.0	105.7	105.0
87.5°	36.6	48.5	38.6	36.6	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)