

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-CLWG-UNV-L850-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-LD5-15HE-N-CLWG-UNV-L850-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

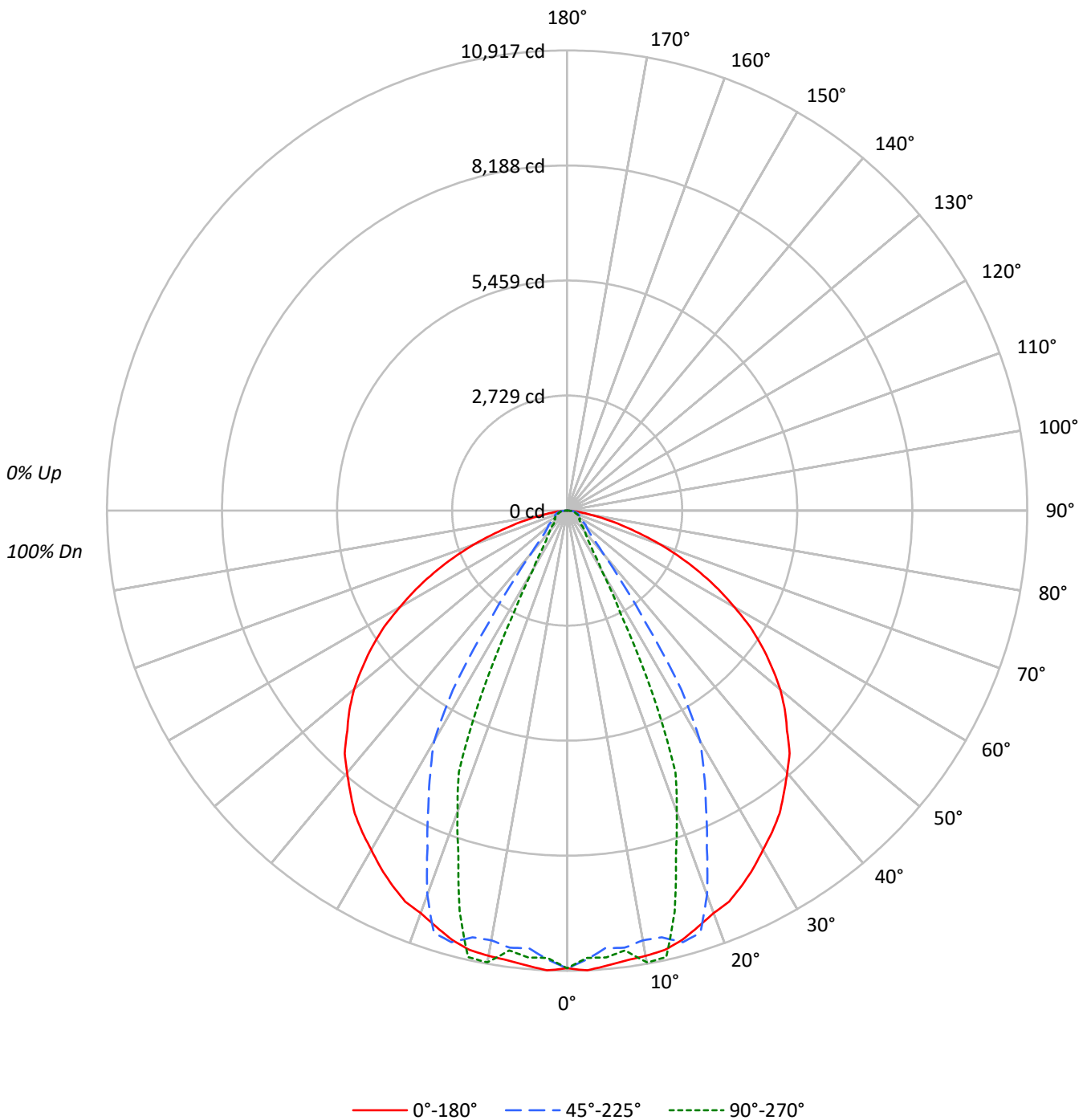
Lumens per Lamp: N/A
Luminaire Lumens: 14597.0 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14609	14609	14609
5°	14634	14076	14373
10°	14655	14144	14870
15°	14687	14764	13722
20°	14548	13886	10892
25°	14569	11576	7115
30°	14439	9807	2556
35°	14423	5313	1438
40°	14260	2316	1126
45°	14040	1431	883
50°	13821	1247	833
55°	13278	1081	815
60°	12319	969	876
65°	11073	1095	958
70°	9287	1177	987
75°	6943	1343	1069
80°	4360	1559	1219
85°	2904	1954	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.4	6.9
10°-20°	2841.8	19.5
20°-30°	3479.9	23.8
30°-40°	2732.8	18.7
40°-50°	2026.5	13.9
50°-60°	1233.7	8.5
60°-70°	739.0	5.1
70°-80°	405.5	2.8
80°-90°	131.5	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°	7328.1	50.2
0°-40°	10060.8	68.9
0°-60°	13321.0	91.3
0°-90°	14597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10858	10858	10858	10858	10858	
5°	10835	10540	10422	10537	10641	###
15°	10544	10255	10599	10171	9851	2969
25°	9814	9844	7798	6116	4792	4518
35°	8781	7988	3234	1082	875	5479
45°	7378	5298	752	570	464	5706
55°	5660	1460	461	390	348	5037
65°	3478	430	344	323	301	3436
75°	1336	272	258	225	206	1446
85°	188	148	127	116	116	229
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10858.0	10858.0	10858.0	10858.0	10858.0
2.5°	10917.3	10770.2	10657.5	10594.5	10620.2
5°	10834.6	10539.7	10421.8	10536.7	10641.4
7.5°	10762.9	10324.5	10457.7	10467.9	10522.8
10°	10726.3	10304.0	10352.3	10579.9	10883.6
12.5°	10678.0	10351.6	10368.4	10678.7	10849.9
15°	10544.1	10255.0	10598.9	10170.8	9851.1
17.5°	10348.7	10029.6	10502.3	9010.3	8575.6
20°	10160.6	9784.5	9698.1	8026.0	7606.7
22.5°	10039.1	9747.2	8663.4	7151.6	6718.4
25°	9813.7	9844.5	7797.7	6116.1	4792.4
27.5°	9565.7	9615.4	7032.3	4078.9	2745.6
30°	9293.5	9350.5	6312.2	2410.4	1645.0
32.5°	9046.9	8724.9	5041.2	1503.8	1143.8
35°	8781.2	7988.0	3234.4	1082.3	875.2
37.5°	8446.8	7213.8	2047.5	856.2	734.7
40°	8119.0	6518.6	1318.6	731.0	641.0
42.5°	7812.4	5945.6	959.3	638.8	578.8
45°	7378.4	5298.0	752.3	570.0	463.9
47.5°	7003.0	4538.4	657.9	482.2	400.3
50°	6602.7	3470.0	595.7	428.8	398.1
52.5°	6127.8	2269.9	550.3	410.5	371.7
55°	5660.2	1459.9	461.0	390.0	347.6
57.5°	5155.3	925.7	406.9	378.3	363.0
60°	4577.9	624.2	360.0	358.6	325.6
62.5°	4043.8	513.0	347.6	343.9	308.1
65°	3478.1	430.3	343.9	323.4	300.8
67.5°	2913.2	368.8	311.0	295.6	275.9
70°	2360.7	337.3	299.3	292.7	251.0
72.5°	1792.8	278.1	265.6	248.1	208.6
75°	1335.5	271.5	258.3	224.7	205.6
77.5°	903.7	250.3	234.9	201.2	185.9
80°	562.7	229.8	201.2	176.4	157.3
82.5°	334.4	191.7	165.4	145.6	133.2
85°	188.1	147.8	126.6	116.4	115.6
87.5°	40.2	53.4	42.4	40.2	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)