

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-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 (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-L740-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

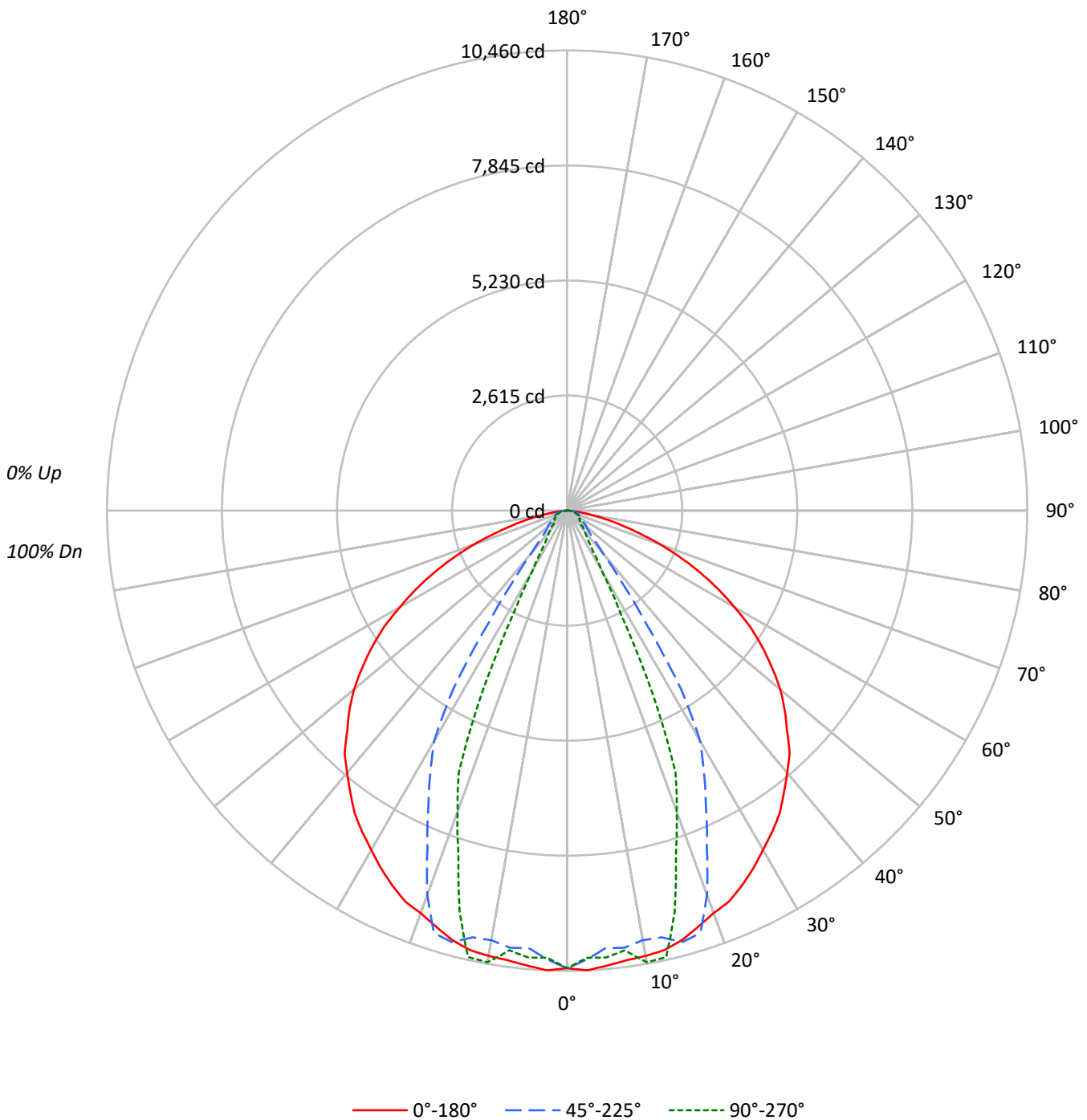
Lumens per Lamp: N/A
Luminaire Lumens: 13985.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	13997	13997	13997
5°	14020	13486	13770
10°	14040	13551	14246
15°	14072	14145	13147
20°	13938	13304	10435
25°	13958	11091	6816
30°	13833	9396	2449
35°	13819	5090	1377
40°	13662	2219	1079
45°	13451	1371	846
50°	13241	1195	798
55°	12721	1036	781
60°	11803	928	840
65°	10609	1049	917
70°	8897	1128	946
75°	6652	1287	1024
80°	4177	1494	1168
85°	2782	1873	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.2	6.9
10°-20°	2722.7	19.5
20°-30°	3334.0	23.8
30°-40°	2618.2	18.7
40°-50°	1941.5	13.9
50°-60°	1182.0	8.5
60°-70°	708.0	5.1
70°-80°	388.5	2.8
80°-90°	126.0	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°	7020.8	50.2
0°-40°	9639.0	68.9
0°-60°	12762.5	91.3
0°-90°	13985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10403	10403	10403	10403	10403	
5°	10380	10098	9985	10095	10195	987
15°	10102	9825	10155	9744	9438	2844
25°	9402	9432	7471	5860	4591	4328
35°	8413	7653	3099	1037	838	5250
45°	7069	5076	721	546	444	5466
55°	5423	1399	442	374	333	4826
65°	3332	412	330	310	288	3292
75°	1280	260	248	215	197	1385
85°	180	142	121	112	111	220
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10402.7	10402.7	10402.7	10402.7	10402.7
2.5°	10459.5	10318.6	10210.6	10150.4	10174.9
5°	10380.3	10097.8	9984.9	10095.0	10195.2
7.5°	10311.6	9891.7	10019.2	10029.1	10081.6
10°	10276.5	9872.0	9918.3	10136.3	10427.3
12.5°	10230.3	9917.6	9933.7	10231.0	10395.0
15°	10102.0	9825.0	10154.6	9744.4	9438.0
17.5°	9914.8	9609.1	10062.0	8632.5	8216.1
20°	9734.6	9374.2	9291.5	7689.5	7287.8
22.5°	9618.2	9338.5	8300.2	6851.7	6436.7
25°	9402.3	9431.7	7470.8	5859.7	4591.4
27.5°	9164.6	9212.3	6737.5	3907.9	2630.5
30°	8903.8	8958.5	6047.6	2309.4	1576.0
32.5°	8667.6	8359.1	4829.8	1440.7	1095.8
35°	8413.1	7653.1	3098.8	1036.9	838.5
37.5°	8092.7	6911.3	1961.6	820.3	703.9
40°	7778.6	6245.3	1263.4	700.4	614.2
42.5°	7484.8	5696.3	919.1	612.0	554.6
45°	7069.1	5075.9	720.7	546.1	444.5
47.5°	6709.4	4348.1	630.3	462.0	383.5
50°	6325.9	3324.6	570.7	410.8	381.4
52.5°	5870.9	2174.8	527.2	393.3	356.2
55°	5422.9	1398.7	441.7	373.7	333.0
57.5°	4939.2	886.9	389.8	362.5	347.7
60°	4386.0	598.0	344.9	343.5	312.0
62.5°	3874.2	491.5	333.0	329.5	295.2
65°	3332.3	412.2	329.5	309.9	288.1
67.5°	2791.0	353.3	298.0	283.2	264.3
70°	2261.7	323.2	286.7	280.4	240.5
72.5°	1717.7	266.4	254.5	237.7	199.8
75°	1279.5	260.1	247.5	215.2	197.0
77.5°	865.8	239.8	225.0	192.8	178.1
80°	539.1	220.1	192.8	169.0	150.7
82.5°	320.4	183.7	158.4	139.5	127.6
85°	180.2	141.6	121.3	111.5	110.8
87.5°	38.6	51.2	40.7	38.6	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)