

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-W-AWG-UNV-L840-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-AWG-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

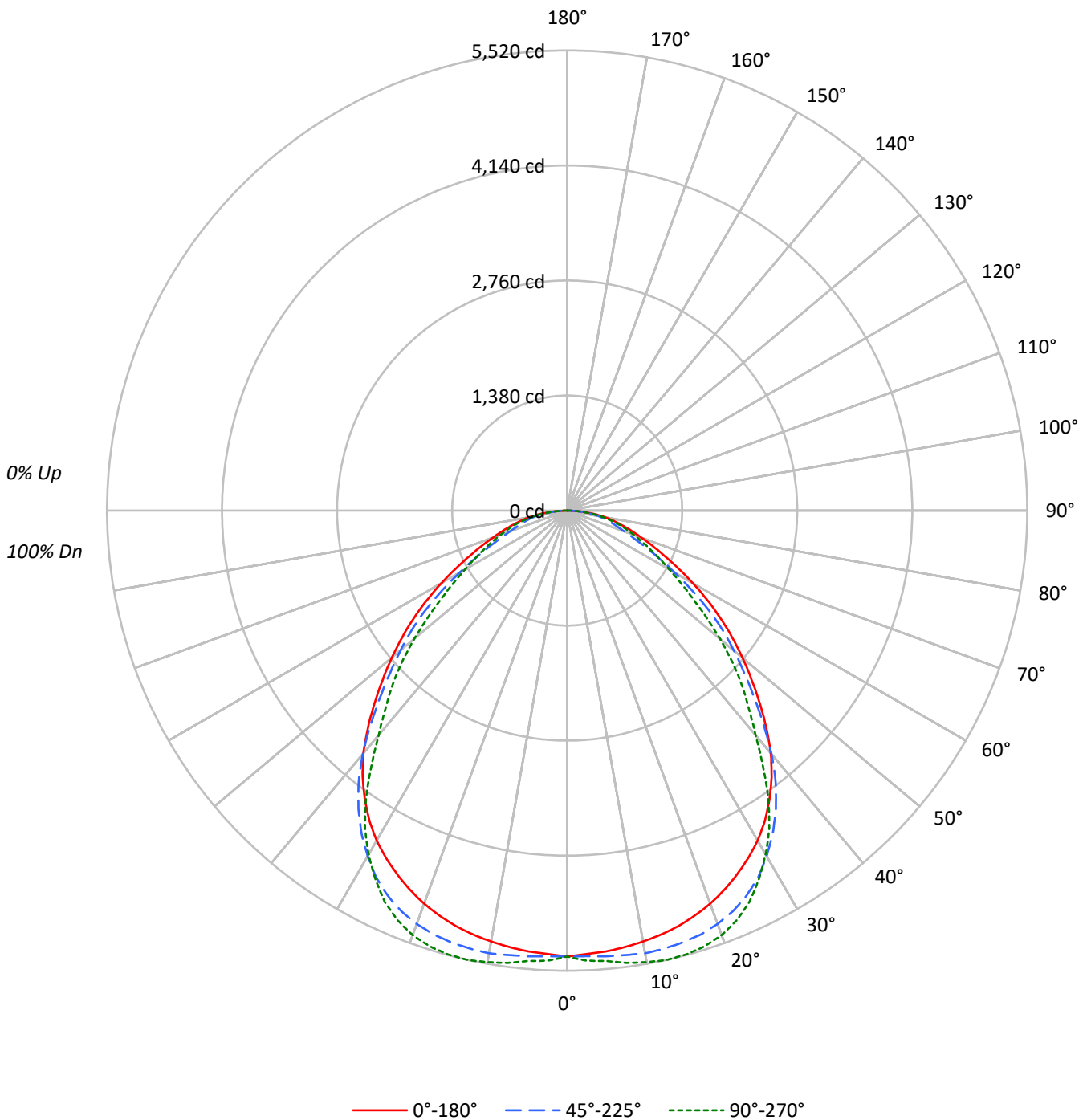
Lumens per Lamp: N/A
Luminaire Lumens: 13262.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
Input Voltage (V): NR
Input Current (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	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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7198	7198	7198
5°	7170	7250	7324
10°	7172	7367	7515
15°	7186	7469	7679
20°	7184	7555	7758
25°	7153	7565	7687
30°	7100	7438	7399
35°	6950	7169	6908
40°	6678	6697	6176
45°	6216	6038	5646
50°	5745	5460	5003
55°	5259	4839	4317
60°	4690	4016	3812
65°	4113	3305	3503
70°	3714	2847	3336
75°	3550	2791	3326
80°	3578	2954	3245
85°	3169	2706	2833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.9	3.9
10°-20°	1514.5	11.4
20°-30°	2323.0	17.5
30°-40°	2671.7	20.1
40°-50°	2436.8	18.4
50°-60°	1826.4	13.8
60°-70°	1123.5	8.5
70°-80°	643.8	4.9
80°-90°	208.5	1.6
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°	4351.3	32.8
0°-40°	7023.1	53.0
0°-60°	11286.3	85.1
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°	5350	5350	5350	5350	5350	
5°	5309	5363	5368	5412	5423	505
15°	5159	5273	5362	5477	5513	1456
25°	4818	4957	5095	5174	5178	2220
35°	4231	4314	4365	4293	4206	2639
45°	3267	3338	3173	3010	2967	2521
55°	2242	2159	2063	1881	1840	2003
65°	1292	1156	1038	1070	1100	1299
75°	683	612	537	615	640	730
85°	205	194	175	185	184	229
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5349.8	5349.8	5349.8	5349.8	5349.8
2.5°	5324.5	5362.7	5350.5	5381.8	5405.0
5°	5308.9	5362.7	5368.2	5412.5	5422.8
7.5°	5282.3	5352.5	5377.1	5455.5	5473.2
10°	5249.5	5334.1	5392.1	5476.7	5500.5
12.5°	5209.9	5308.2	5381.8	5486.2	5520.3
15°	5158.8	5273.4	5362.1	5476.7	5512.8
17.5°	5094.0	5227.0	5330.7	5443.2	5480.7
20°	5017.6	5158.1	5276.1	5391.4	5418.0
22.5°	4925.5	5066.7	5201.1	5304.8	5319.1
25°	4818.4	4956.9	5095.4	5173.8	5177.9
27.5°	4701.8	4830.7	4960.3	5002.6	4984.2
30°	4570.1	4685.4	4787.7	4796.6	4762.5
32.5°	4413.9	4517.6	4590.6	4571.5	4514.2
35°	4231.1	4313.7	4364.8	4293.2	4205.9
37.5°	4030.6	4092.7	4109.7	3954.2	3854.6
40°	3802.1	3855.3	3813.0	3596.8	3516.3
42.5°	3538.8	3600.2	3491.7	3278.2	3229.1
45°	3266.6	3337.6	3173.2	3009.5	2967.2
47.5°	2999.9	3064.7	2878.5	2746.9	2684.1
50°	2744.8	2772.8	2608.4	2459.7	2390.1
52.5°	2493.8	2465.8	2349.2	2164.3	2102.9
55°	2242.1	2158.9	2062.7	1880.6	1840.3
57.5°	1989.7	1873.8	1768.7	1628.9	1613.2
60°	1742.8	1600.2	1492.5	1409.2	1416.7
62.5°	1507.5	1362.2	1246.9	1220.3	1248.9
65°	1291.9	1155.5	1038.2	1070.2	1100.2
67.5°	1112.5	981.6	862.2	944.0	967.9
70°	944.0	838.3	723.7	829.4	847.9
72.5°	809.7	719.6	620.0	723.0	738.7
75°	682.8	611.9	536.8	614.6	639.8
77.5°	572.3	513.6	462.5	508.2	535.5
80°	461.8	412.0	381.3	401.8	418.8
82.5°	338.3	306.3	283.8	292.6	295.4
85°	205.3	193.7	175.3	184.9	183.5
87.5°	67.5	77.1	81.2	73.0	68.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)