

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

Luminaire Equipment: Sample No. Condition Description

Summary

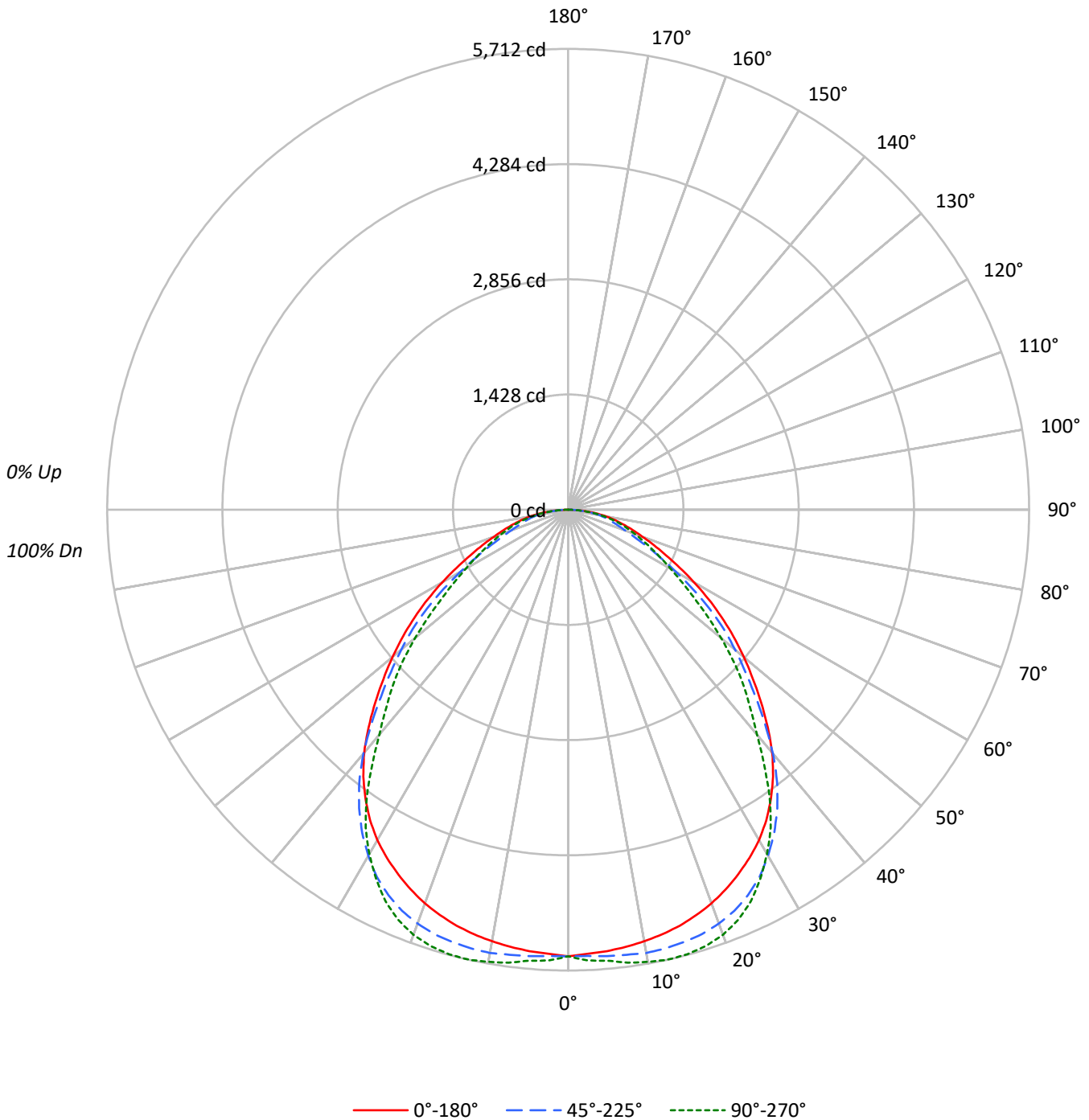
Lumens per Lamp: N/A
Luminaire Lumens: 13722.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	7448	7448	7448
5°	7419	7502	7578
10°	7421	7622	7776
15°	7435	7728	7945
20°	7434	7817	8027
25°	7401	7827	7954
30°	7347	7696	7656
35°	7191	7418	7148
40°	6910	6929	6390
45°	6431	6247	5842
50°	5945	5649	5177
55°	5442	5006	4467
60°	4852	4155	3945
65°	4256	3420	3624
70°	3843	2946	3451
75°	3673	2887	3441
80°	3702	3057	3357
85°	3279	2800	2932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.7	3.9
10°-20°	1567.0	11.4
20°-30°	2403.5	17.5
30°-40°	2764.4	20.1
40°-50°	2521.3	18.4
50°-60°	1889.8	13.8
60°-70°	1162.4	8.5
70°-80°	666.1	4.9
80°-90°	215.7	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°	4502.2	32.8
0°-40°	7266.7	53.0
0°-60°	11677.7	85.1
0°-90°	13722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5535	5535	5535	5535	5535	
5°	5493	5549	5554	5600	5611	522
15°	5338	5456	5548	5667	5704	1507
25°	4986	5129	5272	5353	5358	2297
35°	4378	4463	4516	4442	4352	2730
45°	3380	3453	3283	3114	3070	2608
55°	2320	2234	2134	1946	1904	2073
65°	1337	1196	1074	1107	1138	1344
75°	706	633	555	636	662	755
85°	212	200	181	191	190	237
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5535.3	5535.3	5535.3	5535.3	5535.3
2.5°	5509.2	5548.8	5536.0	5568.5	5592.5
5°	5493.0	5548.8	5554.4	5600.3	5610.9
7.5°	5465.5	5538.2	5563.6	5644.7	5663.1
10°	5431.6	5519.1	5579.1	5666.6	5691.3
12.5°	5390.7	5492.3	5568.5	5676.5	5711.8
15°	5337.7	5456.3	5548.0	5666.6	5704.0
17.5°	5270.7	5408.3	5515.6	5632.0	5670.8
20°	5191.6	5337.0	5459.1	5578.4	5605.9
22.5°	5096.4	5242.4	5381.5	5488.8	5503.6
25°	4985.5	5128.8	5272.1	5353.3	5357.5
27.5°	4864.9	4998.3	5132.3	5176.1	5157.1
30°	4728.6	4847.9	4953.8	4963.0	4927.7
32.5°	4567.0	4674.3	4749.8	4730.1	4670.8
35°	4377.9	4463.3	4516.2	4442.1	4351.8
37.5°	4170.4	4234.6	4252.3	4091.3	3988.3
40°	3934.0	3989.0	3945.2	3721.5	3638.2
42.5°	3661.5	3725.0	3612.8	3391.9	3341.1
45°	3379.9	3453.3	3283.2	3113.9	3070.1
47.5°	3104.0	3171.0	2978.3	2842.1	2777.2
50°	2840.0	2868.9	2698.9	2545.0	2473.0
52.5°	2580.3	2551.4	2430.7	2239.4	2175.9
55°	2319.9	2233.8	2134.2	1945.8	1904.2
57.5°	2058.7	1938.7	1830.1	1685.4	1669.1
60°	1803.2	1655.7	1544.2	1458.1	1465.9
62.5°	1559.7	1409.4	1290.1	1262.6	1292.3
65°	1336.7	1195.6	1074.2	1107.4	1138.4
67.5°	1151.1	1015.6	892.1	976.8	1001.5
70°	976.8	867.4	748.8	858.2	877.3
72.5°	837.7	744.6	641.5	748.1	764.3
75°	706.5	633.1	555.4	635.9	662.0
77.5°	592.1	531.4	478.5	525.8	554.0
80°	477.8	426.3	394.5	415.7	433.3
82.5°	350.1	316.9	293.6	302.8	305.6
85°	212.4	200.4	181.4	191.3	189.9
87.5°	69.9	79.8	84.0	75.5	71.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)