

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-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

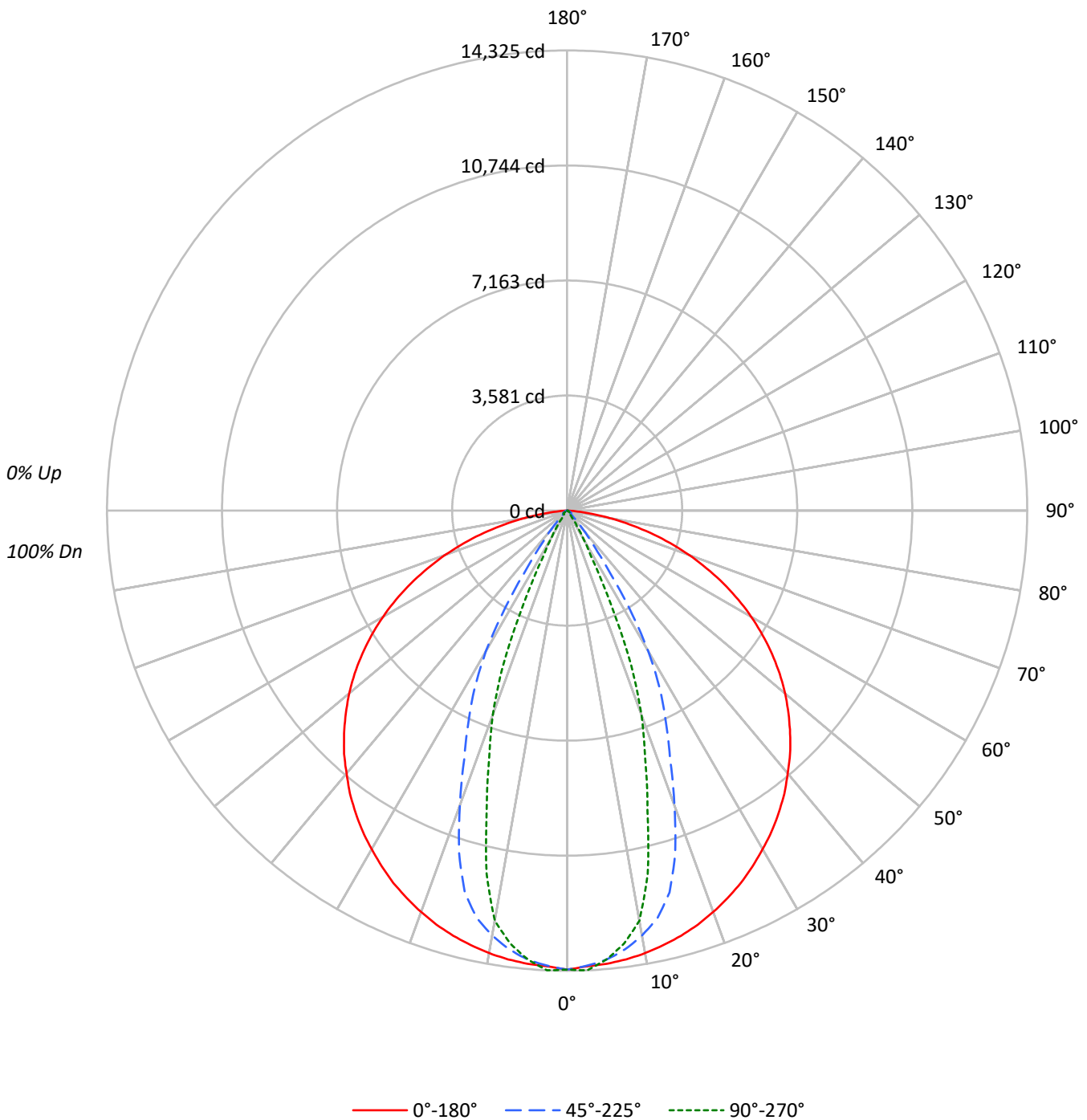
Lumens per Lamp: N/A
Luminaire Lumens: 15189.0 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19228	19228	19228
5°	19125	18956	18948
10°	19113	18348	17705
15°	19086	17142	13474
20°	19041	13974	9699
25°	18993	10805	4778
30°	18909	7853	1549
35°	18864	3484	399
40°	18766	1415	269
45°	18682	397	286
50°	18536	282	317
55°	18269	335	136
60°	17818	373	82
65°	17085	238	97
70°	15872	211	120
75°	13885	159	166
80°	10382	195	237
85°	5142	252	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1326.2	8.7
10°-20°	3316.1	21.8
20°-30°	3591.9	23.6
30°-40°	2659.9	17.5
40°-50°	1915.8	12.6
50°-60°	1186.3	7.8
60°-70°	729.6	4.8
70°-80°	384.6	2.5
80°-90°	78.7	0.5
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°	8234.1	54.2
0°-40°	10894.1	71.7
0°-60°	13996.2	92.1
0°-90°	15189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14290	14290	14290	14290	14290	
5°	14160	14212	14035	14045	14029	###
15°	13702	13384	12306	10465	9673	3868
25°	12794	11719	7278	4579	3218	5895
35°	11485	8097	2121	499	243	7185
45°	9818	4562	209	151	150	7572
55°	7788	940	143	129	58	6952
65°	5366	99	75	48	31	5295
75°	2671	23	31	40	32	2821
85°	333	9	16	24	20	503
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14290.5	14290.5	14290.5	14290.5	14290.5
2.5°	14198.7	14289.1	14182.4	14261.9	14325.2
5°	14160.0	14212.3	14034.9	14045.1	14028.8
7.5°	14092.0	14079.8	13781.3	13650.8	13593.7
10°	13989.3	13908.4	13429.8	13157.2	12958.7
12.5°	13856.8	13675.9	12991.4	12124.6	11586.2
15°	13701.8	13383.6	12306.1	10465.2	9673.2
17.5°	13516.9	13066.1	11185.8	8771.0	8064.0
20°	13298.6	12712.0	9759.5	7462.4	6773.7
22.5°	13055.3	12281.0	8374.0	6202.0	5219.7
25°	12793.5	11718.7	7278.2	4578.6	3218.3
27.5°	12491.0	10996.1	6250.3	2696.8	1642.4
30°	12170.8	10125.9	5054.5	1450.7	997.3
32.5°	11847.9	9139.5	3576.5	906.2	565.6
35°	11484.9	8096.7	2121.0	499.0	242.7
37.5°	11106.2	7140.8	1253.6	227.1	155.7
40°	10684.1	6267.3	805.6	150.9	153.0
42.5°	10276.2	5452.8	453.4	148.9	151.6
45°	9818.0	4561.6	208.7	150.9	150.2
47.5°	9344.1	3637.7	135.3	152.3	152.3
50°	8855.3	2601.0	134.6	155.7	151.6
52.5°	8339.4	1622.7	140.0	155.0	124.4
55°	7788.0	939.5	142.8	129.2	57.8
57.5°	7217.0	554.1	144.1	74.1	32.6
60°	6621.4	306.6	138.7	55.1	30.6
62.5°	6007.6	146.2	109.5	51.7	29.9
65°	5366.5	99.3	74.8	47.6	30.6
67.5°	4701.0	76.8	59.1	44.9	31.3
70°	4034.7	57.1	53.7	44.9	30.6
72.5°	3357.6	38.7	44.9	45.5	30.6
75°	2671.0	23.1	30.6	40.1	32.0
77.5°	1990.5	14.3	23.8	41.5	38.7
80°	1339.9	12.2	25.2	38.7	30.6
82.5°	786.6	10.9	24.5	29.9	24.5
85°	333.1	8.8	16.3	24.5	20.4
87.5°	62.5	7.5	12.9	19.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)