

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-WG-UNV-L835-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-W-WG-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

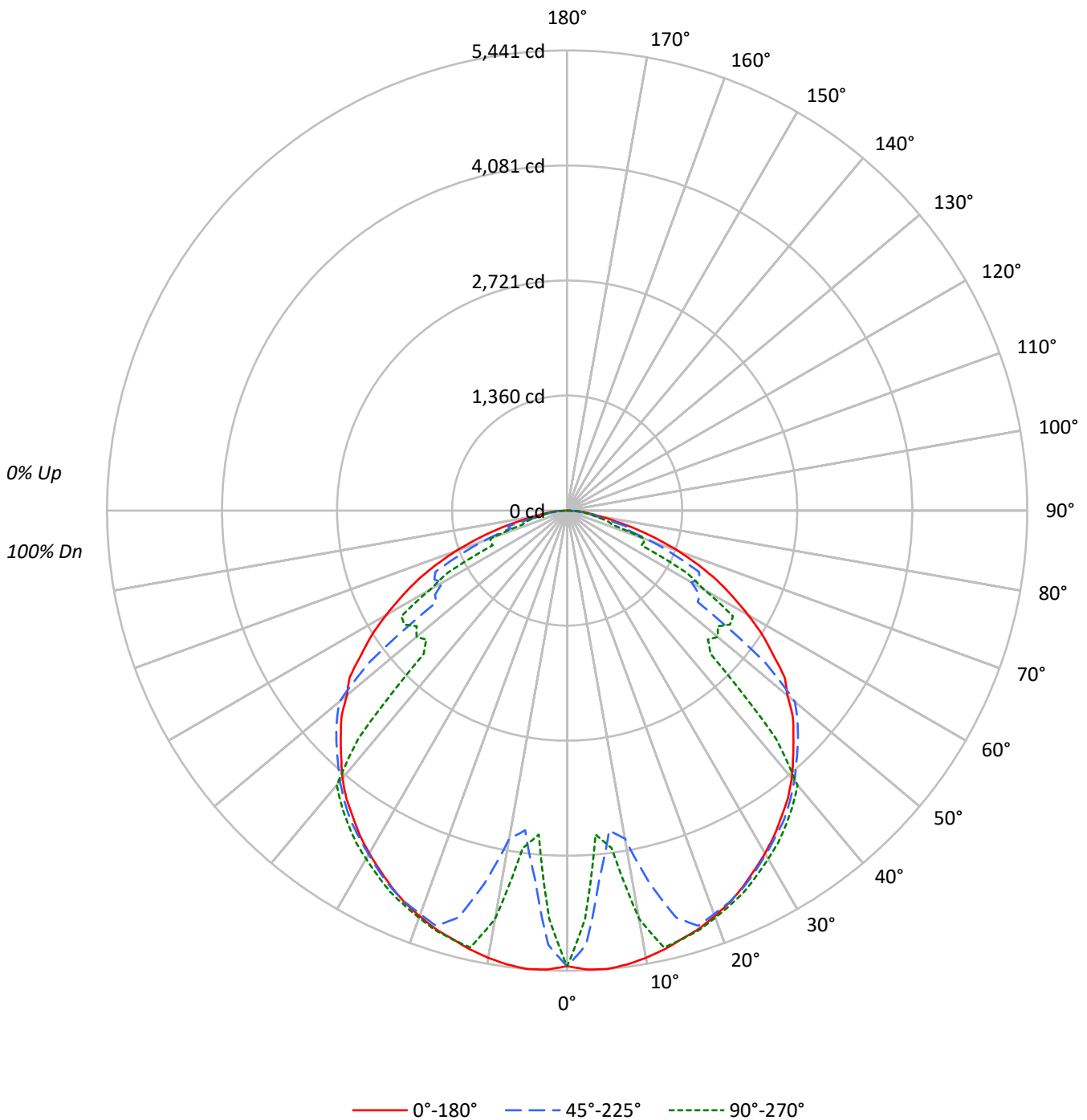
Lumens per Lamp: N/A  
Luminaire Lumens: 14271.0 lumens  
Efficiency: N/A  
Efficacy: 155.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7248	7248	7248
5°	7349	5904	5192
10°	7336	5384	6696
15°	7304	6939	7310
20°	7304	7270	7335
25°	7290	7307	7374
30°	7269	7293	7387
35°	7258	7338	7424
40°	7259	7338	7443
45°	7202	7343	4563
50°	7120	7358	4863
55°	6970	4424	5512
60°	6649	4560	5047
65°	6230	5475	3089
70°	5501	4148	3786
75°	4383	3771	2625
80°	3020	2725	2256
85°	2893	2516	2387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.8	3.0
10°-20°	1349.5	9.5
20°-30°	2220.2	15.6
30°-40°	2791.6	19.6
40°-50°	2737.9	19.2
50°-60°	2268.5	15.9
60°-70°	1600.0	11.2
70°-80°	698.1	4.9
80°-90°	174.4	1.2
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°	4000.5	28.0
0°-40°	6792.1	47.6
0°-60°	11798.5	82.7
0°-90°	14271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5387	5387	5387	5387	5387	
5°	5441	5064	4371	3963	3844	517
15°	5243	3641	4982	5264	5248	1483
25°	4911	4493	4922	4955	4967	2264
35°	4419	4416	4468	4497	4520	2768
45°	3785	3796	3859	3418	2398	2922
55°	2971	3069	1886	2144	2350	2659
65°	1957	2072	1720	1323	970	1924
75°	843	826	725	474	505	904
85°	187	167	163	156	155	194
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5386.8	5386.8	5386.8	5386.8	5386.8
2.5°	5431.3	5318.6	5139.5	4914.0	4834.2
5°	5440.9	5064.1	4371.0	3963.3	3844.2
7.5°	5413.2	4602.3	3810.7	3896.3	4022.6
10°	5369.4	4196.5	3940.8	4636.4	4901.2
12.5°	5313.4	3835.8	4514.7	5237.4	5290.2
15°	5243.2	3641.3	4981.7	5263.8	5247.7
17.5°	5183.9	3755.3	5149.2	5211.0	5199.4
20°	5100.8	3982.6	5077.7	5127.3	5122.7
22.5°	5017.1	4251.9	5010.0	5045.5	5045.5
25°	4910.8	4493.4	4921.8	4954.6	4966.9
27.5°	4794.2	4632.6	4811.6	4838.7	4860.6
30°	4678.9	4652.5	4694.4	4729.2	4754.9
32.5°	4557.2	4546.9	4579.7	4616.5	4649.3
35°	4418.7	4416.1	4467.7	4497.3	4519.8
37.5°	4288.6	4279.6	4327.2	4368.5	4385.9
40°	4132.7	4132.7	4177.8	4219.7	4237.7
42.5°	3954.9	3980.1	4014.8	4058.0	3654.8
45°	3784.9	3796.5	3859.0	3417.7	2398.1
47.5°	3621.3	3636.1	3695.4	2197.1	2257.0
50°	3401.6	3468.6	3515.0	2190.7	2323.4
52.5°	3241.2	3270.2	2950.7	2168.8	2243.5
55°	2971.4	3068.6	1886.0	2144.3	2349.8
57.5°	2740.8	2811.6	1854.4	2197.1	2324.7
60°	2470.9	2579.1	1694.7	2119.8	1875.7
62.5°	2211.9	2315.0	1769.4	1668.3	1588.4
65°	1956.9	2072.2	1719.8	1323.0	970.1
67.5°	1677.3	1569.7	1372.0	932.1	981.0
70°	1398.4	1096.3	1054.4	1042.2	962.3
72.5°	1111.8	800.0	700.2	782.0	559.7
75°	843.2	826.4	725.3	474.1	505.0
77.5°	584.9	596.5	388.4	462.5	383.9
80°	389.7	337.5	351.7	295.0	291.1
82.5°	269.9	275.7	231.2	224.2	227.4
85°	187.4	166.8	163.0	155.9	154.6
87.5°	62.5	72.8	67.6	61.2	65.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)