

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-LD5-18HE-W-WG-UNV-L735-ED2-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-LD5-18HE-W-WG-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

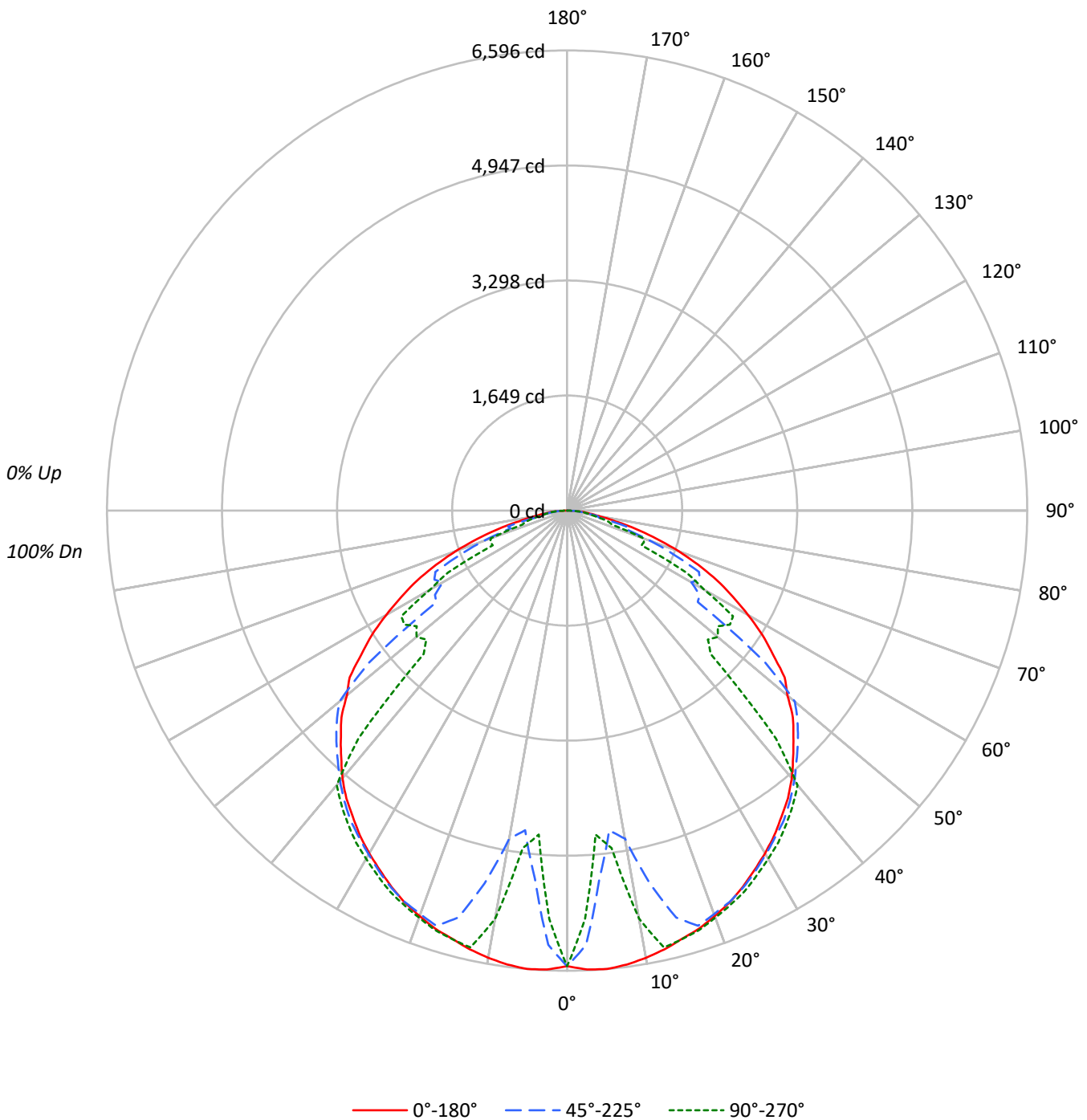
Lumens per Lamp: N/A  
Luminaire Lumens: 17300.0 lumens  
Efficiency: N/A  
Efficacy: 154.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 111.9  
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				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	
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	85	85	85	
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72	72	72	72	72	72	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61	61	61	61	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52	52	52	52	52	52	
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	45	45	45	
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39	39	39	39	39	39	
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35	35	35	35	35	35	
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31	31	31	31	31	31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28	28	28	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25	25	25	25	

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

	0°	45°	90°
0°	8786	8786	8786
5°	8908	7157	6294
10°	8893	6527	8117
15°	8854	8412	8861
20°	8854	8814	8892
25°	8838	8858	8939
30°	8812	8841	8955
35°	8798	8896	9000
40°	8799	8895	9023
45°	8730	8901	5532
50°	8632	8919	5896
55°	8450	5363	6682
60°	8060	5528	6119
65°	7552	6638	3744
70°	6669	5028	4589
75°	5313	4571	3183
80°	3660	3303	2734
85°	3507	3051	2893



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.2	3.0
10°-20°	1635.9	9.5
20°-30°	2691.5	15.6
30°-40°	3384.2	19.6
40°-50°	3319.0	19.2
50°-60°	2750.0	15.9
60°-70°	1939.6	11.2
70°-80°	846.2	4.9
80°-90°	211.4	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°	4849.6	28.0
0°-40°	8233.7	47.6
0°-60°	14302.7	82.7
0°-90°	17300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6530	6530	6530	6530	6530	
5°	6596	6139	5299	4804	4660	626
15°	6356	4414	6039	6381	6362	1797
25°	5953	5447	5966	6006	6021	2744
35°	5357	5354	5416	5452	5479	3356
45°	4588	4602	4678	4143	2907	3542
55°	3602	3720	2286	2599	2848	3223
65°	2372	2512	2085	1604	1176	2332
75°	1022	1002	879	575	612	1096
85°	227	202	198	189	187	236
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6530.2	6530.2	6530.2	6530.2	6530.2
2.5°	6584.1	6447.4	6230.3	5957.0	5860.2
5°	6595.8	6139.0	5298.8	4804.5	4660.1
7.5°	6562.2	5579.1	4619.5	4723.3	4876.4
10°	6509.1	5087.2	4777.2	5620.5	5941.4
12.5°	6441.2	4649.9	5472.9	6349.0	6413.1
15°	6356.1	4414.1	6039.0	6381.0	6361.5
17.5°	6284.2	4552.3	6242.1	6317.0	6303.0
20°	6183.5	4828.0	6155.4	6215.5	6210.0
22.5°	6082.0	5154.3	6073.4	6116.3	6116.3
25°	5953.1	5447.2	5966.4	6006.2	6021.1
27.5°	5811.8	5615.8	5832.9	5865.7	5892.2
30°	5672.0	5640.0	5690.8	5732.9	5764.2
32.5°	5524.5	5512.0	5551.8	5596.3	5636.1
35°	5356.6	5353.5	5415.9	5451.8	5479.2
37.5°	5198.9	5187.9	5245.7	5295.7	5316.8
40°	5009.9	5009.9	5064.5	5115.3	5137.2
42.5°	4794.4	4824.8	4867.0	4919.3	4430.5
45°	4588.2	4602.3	4678.0	4143.2	2907.1
47.5°	4389.9	4407.9	4479.7	2663.5	2736.1
50°	4123.6	4204.8	4261.1	2655.6	2816.5
52.5°	3929.2	3964.3	3577.0	2629.1	2719.7
55°	3602.0	3719.9	2286.3	2599.4	2848.5
57.5°	3322.5	3408.4	2248.0	2663.5	2818.1
60°	2995.3	3126.5	2054.4	2569.8	2273.8
62.5°	2681.4	2806.3	2145.0	2022.4	1925.6
65°	2372.2	2512.0	2084.9	1603.9	1175.9
67.5°	2033.3	1902.9	1663.2	1129.9	1189.2
70°	1695.2	1329.0	1278.2	1263.4	1166.6
72.5°	1347.7	969.8	848.8	947.9	678.6
75°	1022.1	1001.8	879.2	574.7	612.2
77.5°	709.0	723.1	470.8	560.6	465.4
80°	472.4	409.2	426.3	357.6	352.9
82.5°	327.2	334.2	280.3	271.7	275.6
85°	227.2	202.2	197.6	189.0	187.4
87.5°	75.7	88.2	82.0	74.2	78.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)