

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-LD5-18SE-N-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CLWG-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

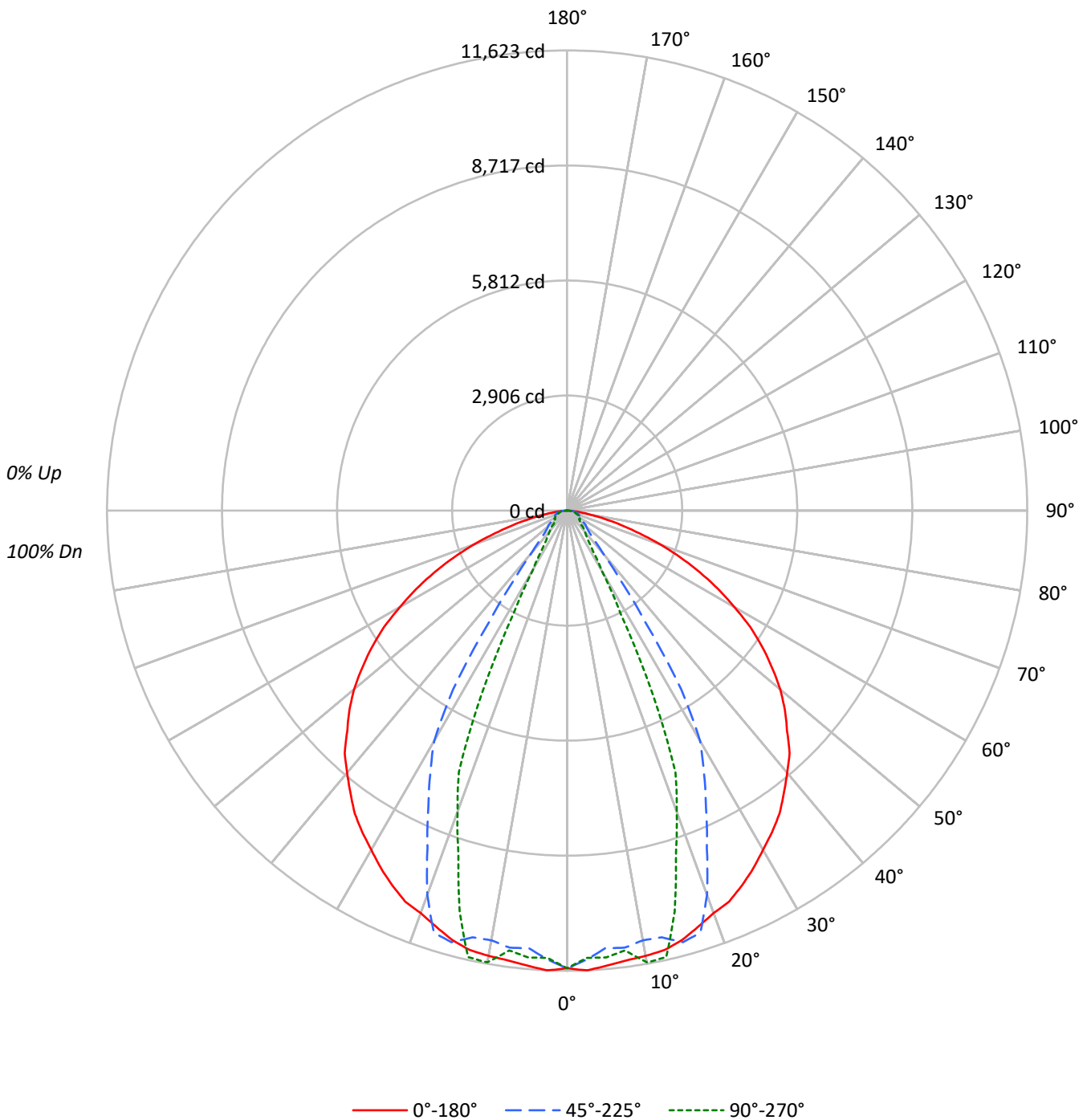
Lumens per Lamp: N/A
Luminaire Lumens: 15541.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15554	15554	15554
5°	15580	14986	15302
10°	15602	15058	15831
15°	15637	15719	14609
20°	15489	14784	11596
25°	15512	12325	7575
30°	15372	10441	2721
35°	15356	5656	1531
40°	15182	2466	1199
45°	14948	1524	940
50°	14715	1328	887
55°	14136	1151	868
60°	13116	1031	933
65°	11789	1166	1019
70°	9888	1253	1051
75°	7391	1430	1138
80°	4642	1660	1298
85°	3091	2081	1900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1071.5	6.9
10°-20°	3025.6	19.5
20°-30°	3704.9	23.8
30°-40°	2909.5	18.7
40°-50°	2157.6	13.9
50°-60°	1313.5	8.5
60°-70°	786.8	5.1
70°-80°	431.7	2.8
80°-90°	140.0	0.9
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°	7802.0	50.2
0°-40°	10711.5	68.9
0°-60°	14182.5	91.3
0°-90°	15541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11560	11560	11560	11560	11560	
5°	11535	11221	11096	11218	11330	###
15°	11226	10918	11284	10829	10488	3161
25°	10448	10481	8302	6512	5102	4810
35°	9349	8505	3444	1152	932	5834
45°	7856	5641	801	607	494	6075
55°	6026	1554	491	415	370	5363
65°	3703	458	366	344	320	3659
75°	1422	289	275	239	219	1540
85°	200	157	135	124	123	244
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11560.2	11560.2	11560.2	11560.2	11560.2
2.5°	11623.3	11466.7	11346.7	11279.7	11307.0
5°	11535.2	11221.3	11095.8	11218.2	11329.6
7.5°	11458.9	10992.2	11134.0	11144.9	11203.4
10°	11419.9	10970.4	11021.8	11264.1	11587.4
12.5°	11368.5	11021.0	11039.0	11369.3	11551.6
15°	11225.9	10918.2	11284.4	10828.6	10488.1
17.5°	11017.9	10678.2	11181.5	9593.0	9130.2
20°	10817.7	10417.2	10325.3	8545.1	8098.7
22.5°	10688.4	10377.5	9223.7	7614.1	7152.8
25°	10448.4	10481.1	8302.0	6511.7	5102.3
27.5°	10184.3	10237.3	7487.1	4342.7	2923.2
30°	9894.5	9955.2	6720.5	2566.3	1751.4
32.5°	9631.9	9289.1	5367.2	1601.0	1217.7
35°	9349.1	8504.6	3443.6	1152.3	931.8
37.5°	8993.1	7680.3	2179.9	911.5	782.2
40°	8644.0	6940.2	1403.9	778.3	682.5
42.5°	8317.6	6330.1	1021.4	680.1	616.3
45°	7855.6	5640.6	800.9	606.9	493.9
47.5°	7455.9	4831.9	700.4	513.4	426.2
50°	7029.8	3694.5	634.2	456.5	423.8
52.5°	6524.1	2416.7	585.9	437.1	395.8
55°	6026.3	1554.3	490.8	415.3	370.1
57.5°	5488.7	985.6	433.2	402.8	386.4
60°	4874.0	664.6	383.3	381.8	346.7
62.5°	4305.3	546.1	370.1	366.2	328.0
65°	3703.0	458.1	366.2	344.4	320.2
67.5°	3101.6	392.7	331.1	314.8	293.7
70°	2513.4	359.2	318.6	311.6	267.2
72.5°	1908.8	296.1	282.8	264.1	222.0
75°	1421.8	289.0	275.0	239.2	218.9
77.5°	962.2	266.4	250.1	214.3	197.9
80°	599.1	244.6	214.3	187.8	167.5
82.5°	356.0	204.1	176.1	155.0	141.8
85°	200.2	157.4	134.8	123.9	123.1
87.5°	42.9	56.9	45.2	42.9	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)