

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-N-CLWG-UNV-L840-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CLWG-UNV-L840-ED2-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

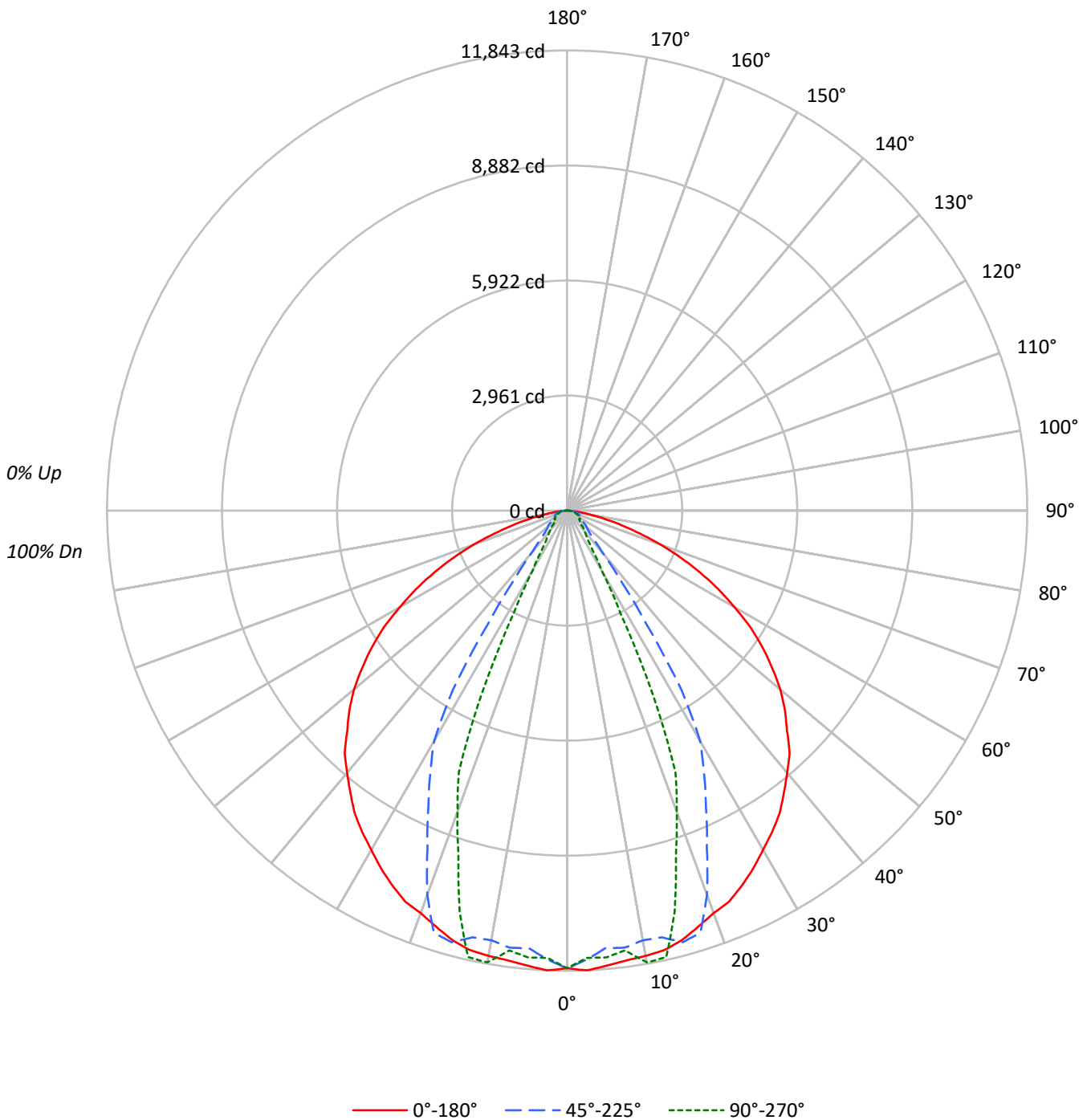
Lumens per Lamp: N/A
Luminaire Lumens: 15835.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15848	15848	15848
5°	15875	15270	15592
10°	15898	15343	16131
15°	15933	16016	14886
20°	15782	15064	11815
25°	15805	12558	7718
30°	15663	10639	2772
35°	15647	5763	1559
40°	15470	2513	1221
45°	15230	1553	958
50°	14993	1353	904
55°	14404	1173	885
60°	13364	1051	951
65°	12012	1188	1039
70°	10074	1277	1071
75°	7531	1457	1160
80°	4730	1691	1323
85°	3149	2120	1936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.7	6.9
10°-20°	3082.8	19.5
20°-30°	3775.0	23.8
30°-40°	2964.5	18.7
40°-50°	2198.4	13.9
50°-60°	1338.3	8.5
60°-70°	801.7	5.1
70°-80°	439.8	2.8
80°-90°	142.7	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°	7949.6	50.2
0°-40°	10914.1	68.9
0°-60°	14450.8	91.3
0°-90°	15835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11779	11779	11779	11779	11779	
5°	11754	11434	11306	11430	11544	###
15°	11438	11125	11498	11034	10687	3220
25°	10646	10679	8459	6635	5199	4901
35°	9526	8666	3509	1174	949	5944
45°	8004	5747	816	618	503	6190
55°	6140	1584	500	423	377	5464
65°	3773	467	373	351	326	3728
75°	1449	294	280	244	223	1569
85°	204	160	137	126	125	249
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11778.9	11778.9	11778.9	11778.9	11778.9
2.5°	11843.2	11683.6	11561.4	11493.1	11520.9
5°	11753.5	11433.5	11305.7	11430.4	11543.9
7.5°	11675.7	11200.2	11344.6	11355.8	11415.3
10°	11636.0	11177.9	11230.3	11477.2	11806.7
12.5°	11583.6	11229.5	11247.8	11584.4	11770.1
15°	11438.3	11124.7	11497.9	11033.5	10686.6
17.5°	11226.4	10880.2	11393.1	9774.4	9302.9
20°	11022.3	10614.3	10520.6	8706.7	8251.9
22.5°	10890.6	10573.8	9398.2	7758.1	7288.2
25°	10646.1	10679.4	8459.1	6634.8	5198.8
27.5°	10377.0	10430.9	7628.7	4424.8	2978.5
30°	10081.7	10143.6	6847.6	2614.9	1784.5
32.5°	9814.1	9464.8	5468.7	1631.3	1240.8
35°	9526.0	8665.5	3508.7	1174.1	949.4
37.5°	9163.2	7825.6	2221.1	928.8	797.0
40°	8807.6	7071.4	1430.5	793.0	695.4
42.5°	8474.9	6449.9	1040.7	693.0	627.9
45°	8004.2	5747.3	816.1	618.4	503.3
47.5°	7597.0	4923.3	713.7	523.1	434.2
50°	7162.7	3764.3	646.2	465.2	431.8
52.5°	6647.5	2462.5	597.0	445.3	403.3
55°	6140.3	1583.7	500.1	423.1	377.1
57.5°	5592.5	1004.2	441.4	410.4	393.7
60°	4966.2	677.1	390.6	389.0	353.3
62.5°	4386.7	556.5	377.1	373.1	334.2
65°	3773.1	466.8	373.1	350.9	326.3
67.5°	3160.2	400.1	337.4	320.7	299.3
70°	2560.9	366.0	324.7	317.5	272.3
72.5°	1944.9	301.7	288.2	269.1	226.2
75°	1448.7	294.5	280.2	243.7	223.1
77.5°	980.4	271.5	254.8	218.3	201.6
80°	610.5	249.3	218.3	191.3	170.7
82.5°	362.8	208.0	179.4	158.0	144.5
85°	204.0	160.4	137.3	126.2	125.4
87.5°	43.7	57.9	46.0	43.7	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)