

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-L740-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-L740-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

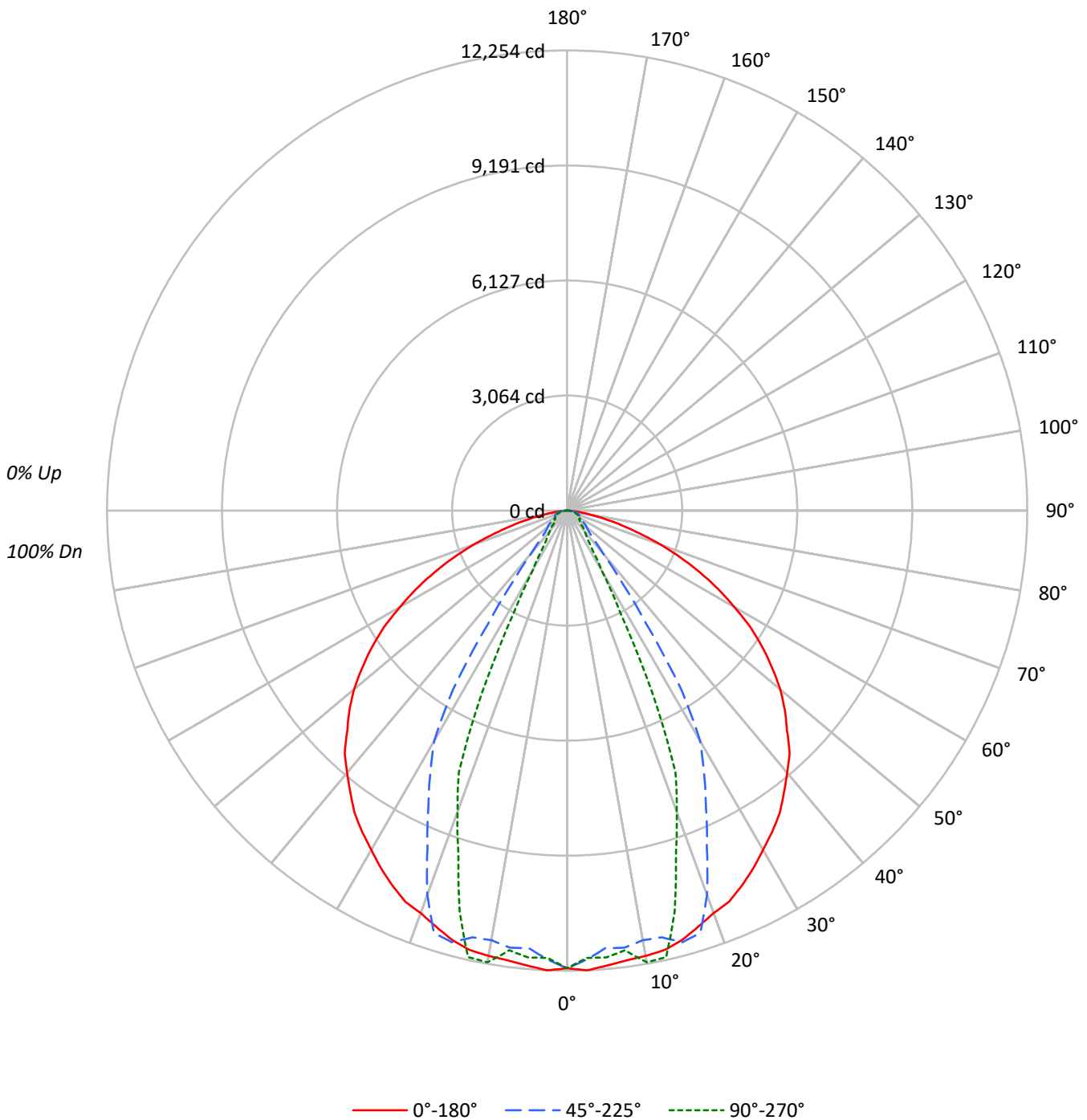
Lumens per Lamp: N/A
Luminaire Lumens: 16384.0 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-18HE-N-CLWG-UNV-L740-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-N-CLWG-UNV-L740-ED2-U

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	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°	16398	16398	16398
5°	16425	15799	16132
10°	16449	15875	16690
15°	16485	16571	15402
20°	16329	15586	12225
25°	16353	12994	7986
30°	16206	11008	2869
35°	16189	5963	1613
40°	16006	2600	1264
45°	15758	1607	991
50°	15513	1400	935
55°	14903	1214	915
60°	13827	1087	984
65°	12429	1229	1075
70°	10424	1321	1108
75°	7793	1507	1200
80°	4894	1750	1368
85°	3259	2194	2004



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-N-CLWG-UNV-L740-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1129.6	6.9
10°-20°	3189.7	19.5
20°-30°	3905.9	23.8
30°-40°	3067.3	18.7
40°-50°	2274.6	13.9
50°-60°	1384.7	8.5
60°-70°	829.5	5.1
70°-80°	455.1	2.8
80°-90°	147.6	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°	8225.2	50.2
0°-40°	11292.5	68.9
0°-60°	14951.8	91.3
0°-90°	16384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12187	12187	12187	12187	12187	
5°	12161	11830	11698	11827	11944	###
15°	11835	11510	11896	11416	11057	3332
25°	11015	11050	8752	6865	5379	5071
35°	9856	8966	3630	1215	982	6150
45°	8282	5947	844	640	521	6404
55°	6353	1639	518	438	390	5654
65°	3904	483	386	363	338	3857
75°	1499	305	290	252	231	1623
85°	211	166	142	131	130	258
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-N-CLWG-UNV-L740-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12187.2	12187.2	12187.2	12187.2	12187.2
2.5°	12253.8	12088.7	11962.2	11891.6	11920.3
5°	12161.0	11830.0	11697.7	11826.7	11944.1
7.5°	12080.5	11588.5	11738.0	11749.5	11811.1
10°	12039.4	11565.5	11619.7	11875.1	12216.0
12.5°	11985.2	11618.9	11637.8	11986.0	12178.2
15°	11834.9	11510.4	11896.5	11416.0	11057.1
17.5°	11615.6	11257.5	11788.1	10113.3	9625.4
20°	11404.5	10982.3	10885.4	9008.6	8538.0
22.5°	11268.1	10940.4	9724.0	8027.1	7540.8
25°	11015.2	11049.7	8752.3	6864.9	5379.0
27.5°	10736.7	10792.6	7893.2	4578.2	3081.7
30°	10431.2	10495.3	7085.0	2705.5	1846.4
32.5°	10154.4	9793.0	5658.3	1687.9	1283.8
35°	9856.2	8965.9	3630.4	1214.8	982.3
37.5°	9480.9	8096.9	2298.1	961.0	824.6
40°	9112.9	7316.6	1480.1	820.5	719.5
42.5°	8768.8	6673.5	1076.8	717.0	649.7
45°	8281.7	5946.6	844.4	639.8	520.7
47.5°	7860.4	5094.0	738.4	541.3	449.3
50°	7411.1	3894.9	668.6	481.3	446.8
52.5°	6878.0	2547.8	617.7	460.8	417.2
55°	6353.2	1638.6	517.5	437.8	390.1
57.5°	5786.4	1039.0	456.7	424.6	407.4
60°	5138.4	700.6	404.1	402.5	365.5
62.5°	4538.8	575.8	390.1	386.0	345.8
65°	3903.9	483.0	386.0	363.0	337.6
67.5°	3269.8	414.0	349.1	331.8	309.7
70°	2649.7	378.6	335.9	328.5	281.7
72.5°	2012.3	312.1	298.2	278.4	234.1
75°	1499.0	304.7	289.9	252.2	230.8
77.5°	1014.4	280.9	263.7	225.9	208.6
80°	631.6	257.9	225.9	197.9	176.6
82.5°	375.4	215.2	185.6	163.4	149.5
85°	211.1	165.9	142.1	130.6	129.8
87.5°	45.2	60.0	47.6	45.2	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)