

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-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 (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-L735-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

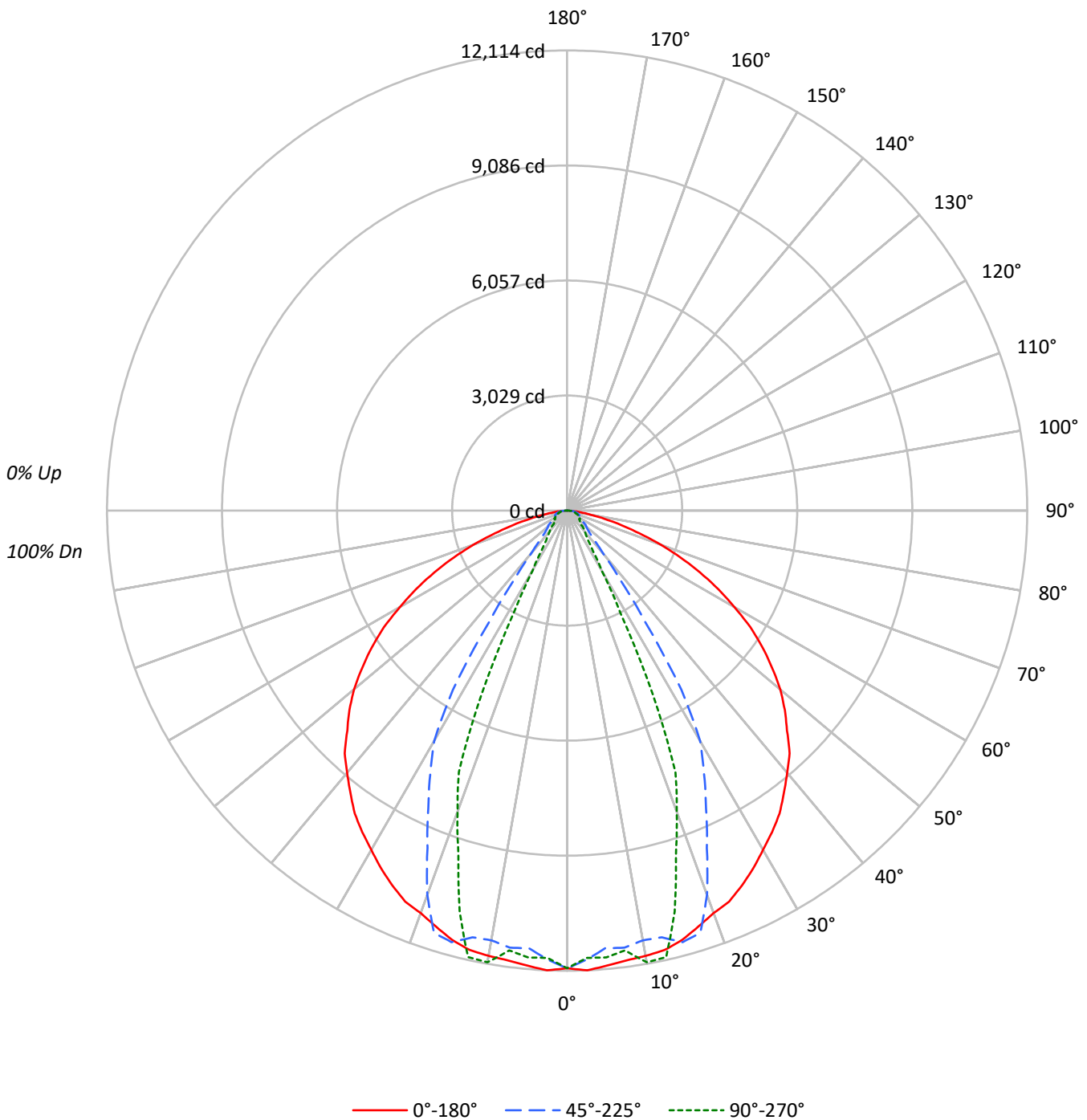
Lumens per Lamp: N/A
Luminaire Lumens: 16197.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (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°	16211	16211	16211
5°	16238	15619	15948
10°	16261	15694	16500
15°	16297	16382	15226
20°	16143	15408	12085
25°	16166	12845	7894
30°	16021	10882	2836
35°	16004	5895	1595
40°	15823	2570	1249
45°	15579	1588	980
50°	15336	1384	925
55°	14733	1200	905
60°	13669	1075	972
65°	12287	1215	1062
70°	10305	1306	1096
75°	7704	1490	1186
80°	4838	1730	1353
85°	3222	2169	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1116.7	6.9
10°-20°	3153.3	19.5
20°-30°	3861.3	23.8
30°-40°	3032.3	18.7
40°-50°	2248.6	13.9
50°-60°	1368.9	8.5
60°-70°	820.0	5.1
70°-80°	449.9	2.8
80°-90°	145.9	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°	8131.3	50.2
0°-40°	11163.6	68.9
0°-60°	14781.2	91.3
0°-90°	16197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12048	12048	12048	12048	12048	
5°	12022	11695	11564	11692	11808	###
15°	11700	11379	11761	11286	10931	3294
25°	10889	10924	8652	6786	5318	5013
35°	9744	8864	3589	1201	971	6080
45°	8187	5879	835	632	515	6331
55°	6281	1620	512	433	386	5589
65°	3859	477	382	359	334	3813
75°	1482	301	287	249	228	1605
85°	209	164	140	129	128	255
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12048.1	12048.1	12048.1	12048.1	12048.1
2.5°	12113.9	11950.7	11825.7	11755.8	11784.2
5°	12022.2	11694.9	11564.2	11691.7	11807.8
7.5°	11942.6	11456.2	11604.0	11615.4	11676.3
10°	11902.0	11433.5	11487.1	11739.6	12076.6
12.5°	11848.4	11486.3	11504.9	11849.2	12039.2
15°	11699.8	11379.1	11760.7	11285.7	10930.9
17.5°	11483.0	11129.0	11653.5	9997.9	9515.6
20°	11274.3	10857.0	10761.2	8905.8	8440.5
22.5°	11139.5	10815.6	9613.0	7935.5	7454.8
25°	10889.4	10923.5	8652.4	6786.5	5317.6
27.5°	10614.2	10669.4	7803.1	4526.0	3046.5
30°	10312.1	10375.5	7004.1	2674.7	1825.3
32.5°	10038.5	9681.2	5593.7	1668.6	1269.1
35°	9743.7	8863.6	3588.9	1200.9	971.1
37.5°	9372.7	8004.5	2271.9	950.0	815.2
40°	9008.9	7233.1	1463.2	811.2	711.3
42.5°	8668.7	6597.3	1064.5	708.9	642.3
45°	8187.2	5878.7	834.7	632.5	514.8
47.5°	7770.6	5035.9	730.0	535.1	444.2
50°	7326.5	3850.4	661.0	475.8	441.7
52.5°	6799.5	2518.8	610.6	455.5	412.5
55°	6280.7	1619.9	511.5	432.8	385.7
57.5°	5720.4	1027.2	451.5	419.8	402.7
60°	5079.7	692.6	399.5	397.9	361.3
62.5°	4487.0	569.2	385.7	381.6	341.8
65°	3859.3	477.4	381.6	358.9	333.7
67.5°	3232.5	409.2	345.1	328.0	306.1
70°	2619.4	374.3	332.1	324.8	278.5
72.5°	1989.3	308.6	294.7	275.3	231.4
75°	1481.9	301.2	286.6	249.3	228.2
77.5°	1002.8	277.7	260.6	223.3	206.2
80°	624.4	255.0	223.3	195.7	174.6
82.5°	371.1	212.7	183.5	161.6	147.8
85°	208.7	164.0	140.5	129.1	128.3
87.5°	44.7	59.3	47.1	44.7	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)