

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-LD5-12HE-N-CLI-UNV-L735-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

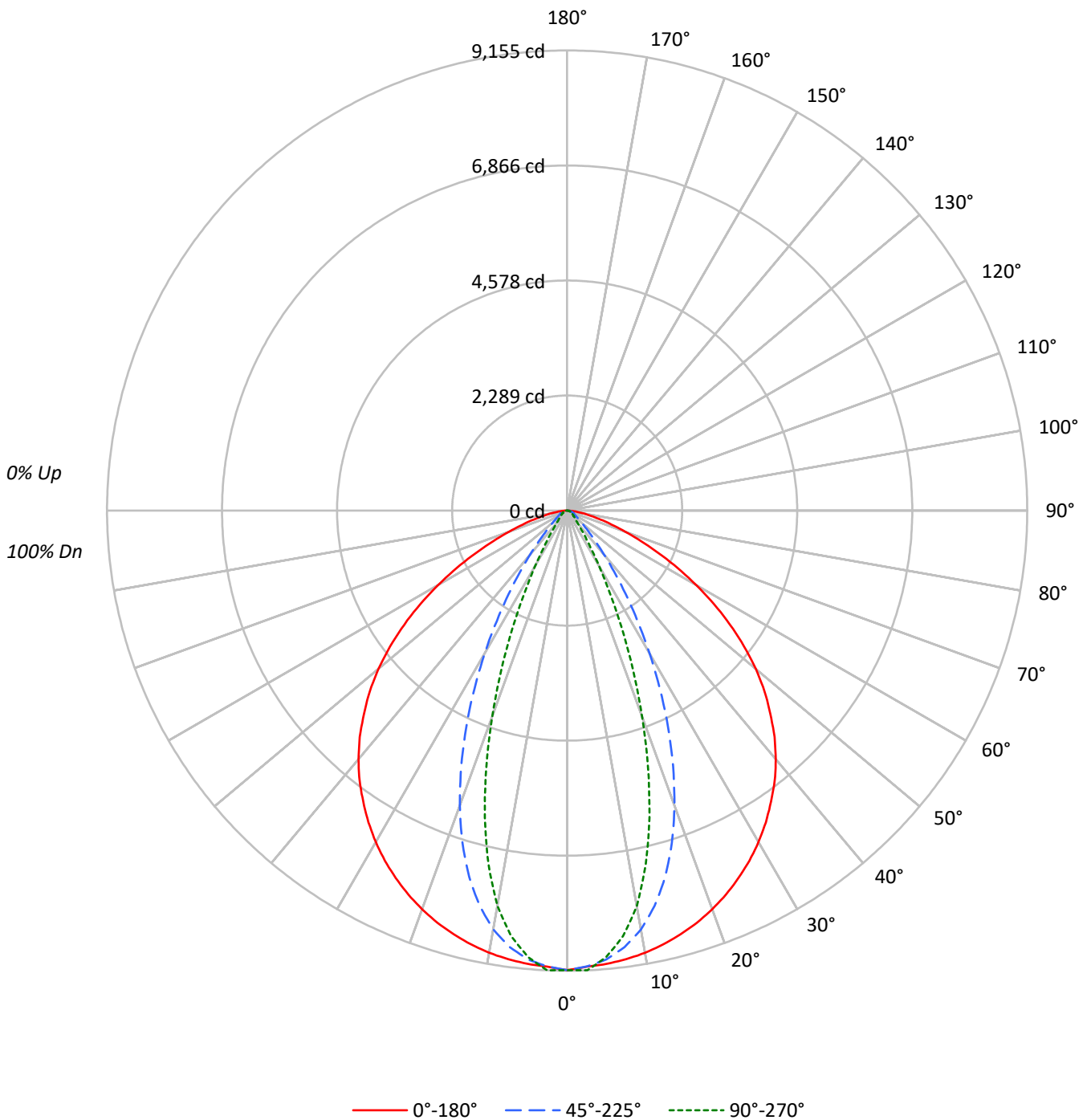
Lumens per Lamp: N/A
Luminaire Lumens: 10009.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12301	12301	12301
5°	12227	12106	12042
10°	12207	11557	10906
15°	12158	10506	8808
20°	12085	8939	6243
25°	11976	7049	3772
30°	11831	5087	1938
35°	11617	3326	968
40°	11342	1998	565
45°	10871	1193	422
50°	10253	780	355
55°	9279	592	309
60°	7974	504	283
65°	6415	460	267
70°	4832	493	265
75°	3555	468	273
80°	2600	466	298
85°	1948	565	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.0	8.4
10°-20°	2094.7	20.9
20°-30°	2320.1	23.2
30°-40°	1858.9	18.6
40°-50°	1327.0	13.3
50°-60°	852.3	8.5
60°-70°	461.9	4.6
70°-80°	197.4	2.0
80°-90°	54.7	0.5
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°	5256.8	52.5
0°-40°	7115.6	71.1
0°-60°	9294.9	92.9
0°-90°	10009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9142	9142	9142	9142	9142	
5°	9053	9087	8963	8934	8916	860
15°	8728	8455	7542	6665	6323	2463
25°	8067	7113	4748	3093	2541	3716
35°	7073	5116	2025	817	589	4422
45°	5713	2953	627	267	222	4403
55°	3956	1320	252	155	132	3525
65°	2015	542	144	100	84	2018
75°	684	198	90	63	52	760
85°	126	52	37	30	25	154
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9142.5	9142.5	9142.5	9142.5	9142.5
2.5°	9082.3	9139.1	9078.0	9116.0	9155.0
5°	9052.9	9086.6	8962.9	8934.5	8915.7
7.5°	9001.9	8992.3	8759.7	8609.0	8536.2
10°	8934.5	8856.5	8459.2	8127.9	7982.5
12.5°	8838.2	8677.3	8052.3	7470.6	7224.0
15°	8727.9	8454.9	7541.9	6665.0	6323.1
17.5°	8596.0	8194.8	6931.8	5801.1	5349.9
20°	8439.9	7880.9	6243.2	4883.3	4359.9
22.5°	8265.6	7518.7	5505.9	3968.4	3406.9
25°	8067.2	7113.3	4748.0	3093.4	2540.6
27.5°	7852.9	6663.1	3994.4	2311.4	1807.2
30°	7615.1	6175.7	3274.5	1666.6	1247.7
32.5°	7355.5	5657.6	2605.6	1172.1	853.3
35°	7072.8	5115.9	2024.9	816.7	589.4
37.5°	6783.4	4563.1	1529.4	577.4	422.8
40°	6457.4	4012.2	1137.4	422.8	321.7
42.5°	6107.4	3471.9	841.7	325.5	260.5
45°	5713.0	2953.3	627.0	266.8	222.0
47.5°	5330.6	2469.8	476.2	227.3	193.1
50°	4898.2	2033.5	372.7	198.4	169.5
52.5°	4439.3	1649.8	302.4	174.8	149.3
55°	3955.8	1320.4	252.3	155.1	131.9
57.5°	3466.1	1045.9	215.7	138.2	117.5
60°	2963.4	836.4	187.3	123.8	105.0
62.5°	2472.7	668.9	163.7	111.2	93.9
65°	2014.8	542.2	144.5	99.7	83.8
67.5°	1591.5	428.6	134.8	89.6	75.6
70°	1228.4	333.7	125.2	79.9	67.4
72.5°	930.8	256.2	110.8	71.3	59.7
75°	683.8	198.4	90.0	62.6	52.5
77.5°	489.2	152.6	73.2	54.4	45.3
80°	335.6	113.6	60.2	46.7	38.5
82.5°	218.1	80.4	48.6	38.5	31.8
85°	126.2	52.5	36.6	30.3	25.0
87.5°	54.4	28.9	25.0	22.6	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)