

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-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-LD5-12HE-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

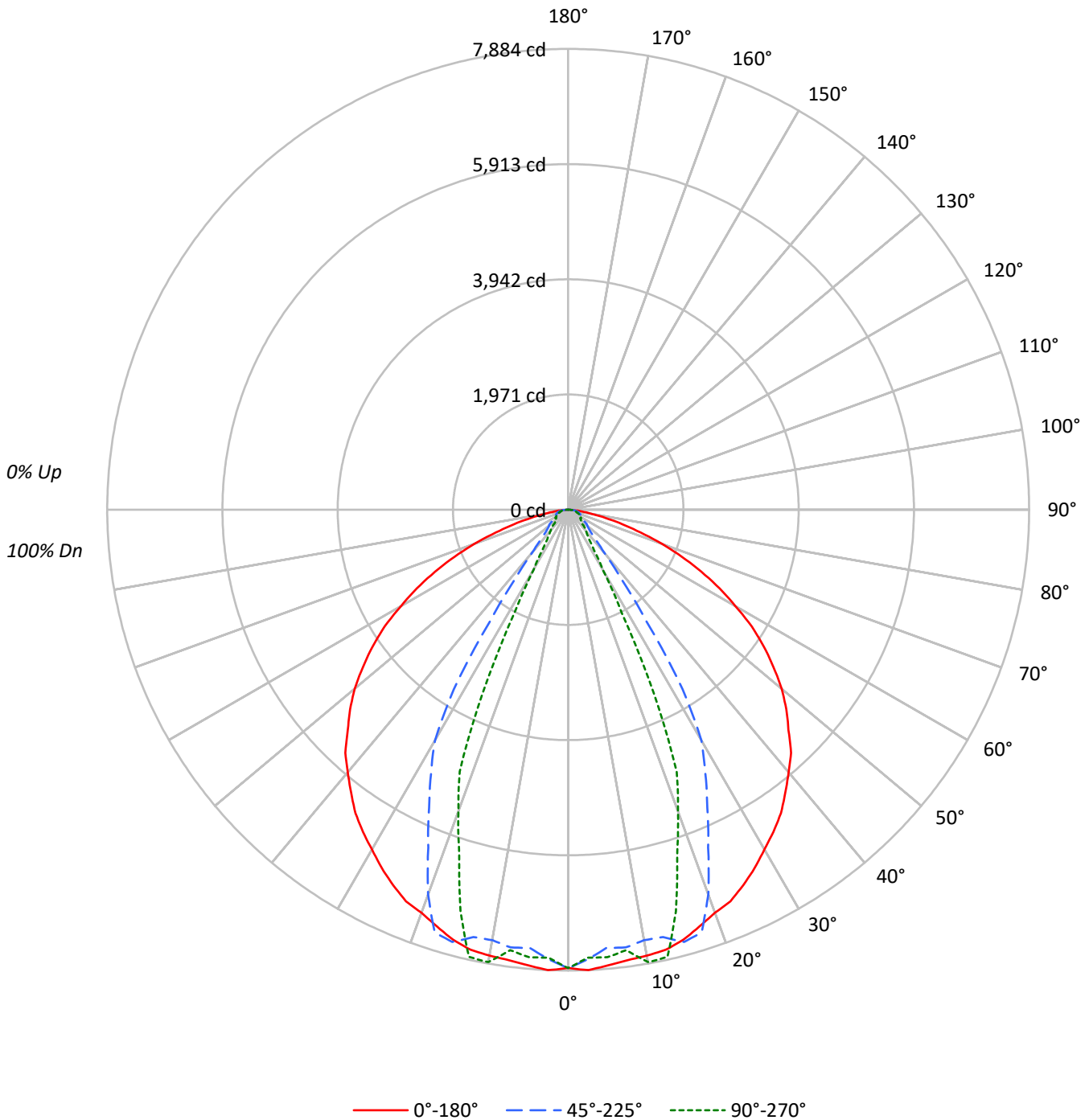
Lumens per Lamp: N/A
Luminaire Lumens: 10542.0 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	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°	10551	10551	10551
5°	10568	10166	10380
10°	10584	10215	10739
15°	10607	10662	9910
20°	10507	10029	7866
25°	10522	8360	5138
30°	10428	7083	1846
35°	10417	3837	1038
40°	10299	1673	813
45°	10140	1034	638
50°	9981	900	602
55°	9589	781	589
60°	8897	700	633
65°	7997	791	691
70°	6707	851	713
75°	5014	970	772
80°	3149	1126	880
85°	2096	1411	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.8	6.9
10°-20°	2052.4	19.5
20°-30°	2513.2	23.8
30°-40°	1973.6	18.7
40°-50°	1463.6	13.9
50°-60°	891.0	8.5
60°-70°	533.7	5.1
70°-80°	292.8	2.8
80°-90°	95.0	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°	5292.3	50.2
0°-40°	7265.9	68.9
0°-60°	9620.5	91.3
0°-90°	10542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7842	7842	7842	7842	7842	
5°	7825	7612	7527	7610	7685	744
15°	7615	7406	7655	7345	7114	2144
25°	7088	7110	5632	4417	3461	3263
35°	6342	5769	2336	782	632	3957
45°	5329	3826	543	412	335	4121
55°	4088	1054	333	282	251	3638
65°	2512	311	248	234	217	2482
75°	964	196	187	162	148	1044
85°	136	107	91	84	84	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7841.7	7841.7	7841.7	7841.7	7841.7
2.5°	7884.5	7778.2	7696.9	7651.4	7669.9
5°	7824.8	7611.8	7526.7	7609.7	7685.2
7.5°	7773.0	7456.4	7552.6	7560.0	7599.6
10°	7746.5	7441.6	7476.5	7640.8	7860.2
12.5°	7711.7	7476.0	7488.1	7712.2	7835.9
15°	7614.9	7406.2	7654.6	7345.4	7114.5
17.5°	7473.8	7243.4	7584.8	6507.2	6193.3
20°	7338.0	7066.4	7004.0	5796.4	5493.6
22.5°	7250.3	7039.4	6256.7	5164.9	4852.0
25°	7087.5	7109.7	5631.5	4417.1	3461.1
27.5°	6908.4	6944.3	5078.7	2945.8	1982.9
30°	6711.8	6753.0	4558.7	1740.8	1188.0
32.5°	6533.7	6301.1	3640.7	1086.0	826.0
35°	6341.8	5768.9	2335.9	781.6	632.1
37.5°	6100.3	5209.8	1478.7	618.3	530.6
40°	5863.5	4707.7	952.3	528.0	463.0
42.5°	5642.1	4293.9	692.8	461.4	418.0
45°	5328.7	3826.2	543.3	411.7	335.1
47.5°	5057.6	3277.7	475.1	348.3	289.1
50°	4768.5	2506.1	430.2	309.7	287.5
52.5°	4425.5	1639.4	397.4	296.5	268.5
55°	4087.8	1054.3	332.9	281.7	251.0
57.5°	3723.2	668.5	293.8	273.2	262.1
60°	3306.2	450.8	260.0	259.0	235.2
62.5°	2920.4	370.5	251.0	248.4	222.5
65°	2511.9	310.7	248.4	233.6	217.2
67.5°	2103.9	266.4	224.6	213.5	199.2
70°	1704.9	243.6	216.2	211.4	181.3
72.5°	1294.8	200.8	191.8	179.2	150.6
75°	964.5	196.1	186.6	162.2	148.5
77.5°	652.7	180.7	169.6	145.3	134.2
80°	406.4	165.9	145.3	127.4	113.6
82.5°	241.5	138.5	119.4	105.2	96.2
85°	135.8	106.8	91.4	84.0	83.5
87.5°	29.1	38.6	30.7	29.1	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)