

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-L850-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-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

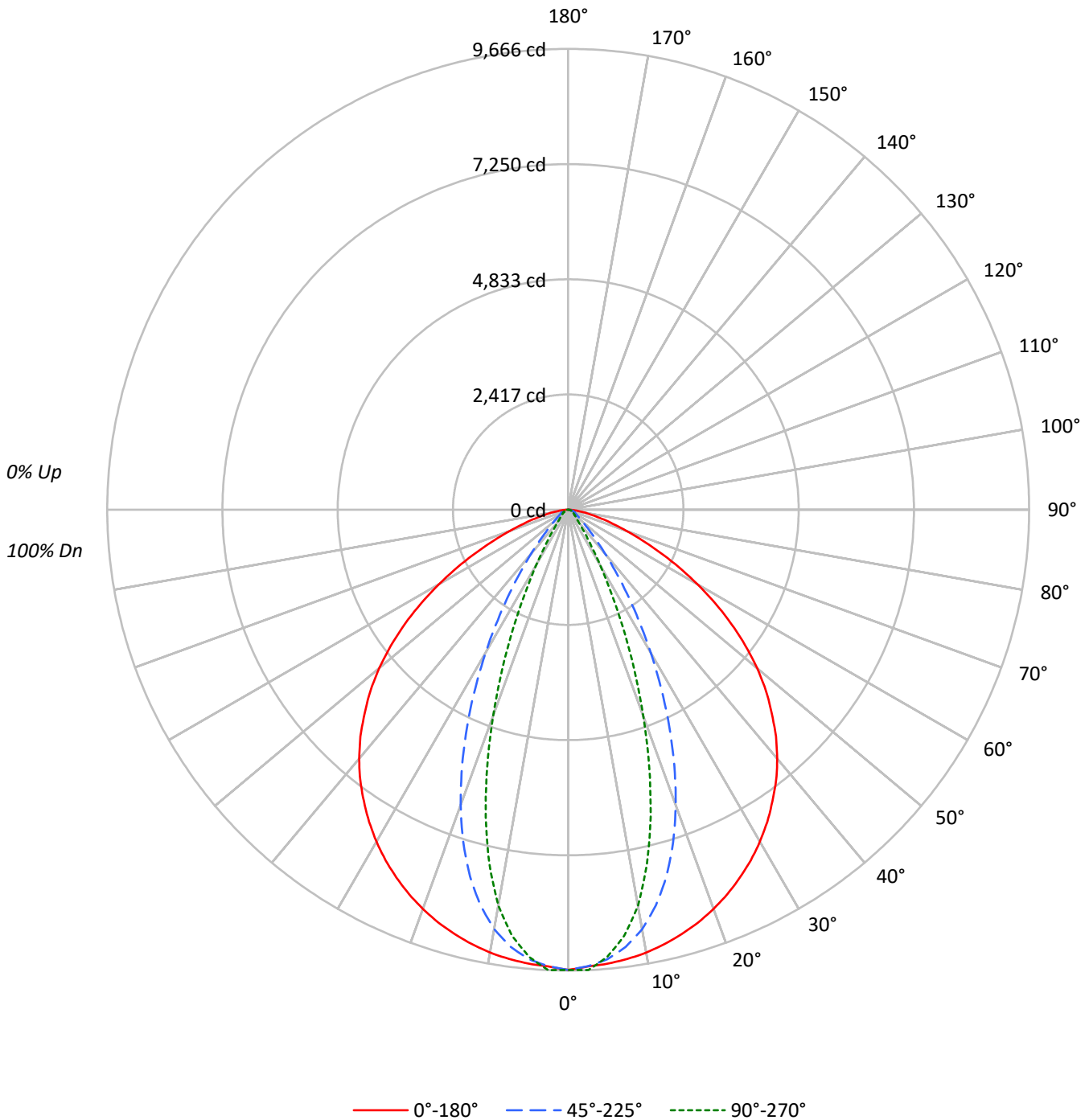
Lumens per Lamp: N/A
Luminaire Lumens: 10568.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	12988	12988	12988
5°	12910	12782	12714
10°	12888	12203	11515
15°	12836	11092	9300
20°	12760	9438	6591
25°	12645	7442	3982
30°	12492	5371	2047
35°	12266	3512	1022
40°	11975	2109	596
45°	11478	1260	446
50°	10826	824	375
55°	9798	625	327
60°	8420	532	298
65°	6773	486	282
70°	5102	520	280
75°	3753	494	288
80°	2746	493	315
85°	2056	596	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.0	8.4
10°-20°	2211.6	20.9
20°-30°	2449.7	23.2
30°-40°	1962.7	18.6
40°-50°	1401.1	13.3
50°-60°	899.9	8.5
60°-70°	487.7	4.6
70°-80°	208.5	2.0
80°-90°	57.8	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°	5550.4	52.5
0°-40°	7513.0	71.1
0°-60°	9814.0	92.9
0°-90°	10568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9653	9653	9653	9653	9653	
5°	9558	9594	9464	9434	9414	909
15°	9215	8927	7963	7037	6676	2600
25°	8518	7511	5013	3266	2682	3924
35°	7468	5402	2138	862	622	4669
45°	6032	3118	662	282	234	4649
55°	4177	1394	266	164	139	3722
65°	2127	572	152	105	88	2130
75°	722	210	95	66	55	802
85°	133	55	39	32	26	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9653.1	9653.1	9653.1	9653.1	9653.1
2.5°	9589.6	9649.5	9585.0	9625.1	9666.3
5°	9558.5	9594.1	9463.5	9433.5	9413.6
7.5°	9504.6	9494.5	9248.9	9089.8	9013.0
10°	9433.5	9351.1	8931.6	8581.8	8428.3
12.5°	9331.8	9162.0	8502.0	7887.8	7627.5
15°	9215.3	8927.1	7963.1	7037.2	6676.2
17.5°	9076.0	8652.5	7318.9	6125.1	5648.7
20°	8911.3	8321.0	6591.8	5156.0	4603.4
22.5°	8727.2	7938.7	5813.4	4190.0	3597.2
25°	8517.8	7510.6	5013.1	3266.2	2682.5
27.5°	8291.5	7035.2	4217.4	2440.5	1908.1
30°	8040.4	6520.7	3457.3	1759.7	1317.3
32.5°	7766.3	5973.6	2751.1	1237.5	900.9
35°	7467.9	5401.6	2138.0	862.3	622.3
37.5°	7162.3	4817.9	1614.8	609.6	446.4
40°	6818.1	4236.3	1200.9	446.4	339.6
42.5°	6448.5	3665.8	888.7	343.7	275.1
45°	6032.0	3118.2	662.0	281.7	234.4
47.5°	5628.4	2607.8	502.8	240.0	203.9
50°	5171.8	2147.1	393.5	209.5	179.0
52.5°	4687.2	1741.9	319.3	184.6	157.6
55°	4176.8	1394.1	266.4	163.7	139.3
57.5°	3659.7	1104.3	227.8	145.9	124.1
60°	3128.9	883.1	197.8	130.7	110.8
62.5°	2610.8	706.2	172.9	117.4	99.1
65°	2127.3	572.5	152.5	105.2	88.5
67.5°	1680.4	452.5	142.4	94.6	79.8
70°	1297.0	352.3	132.2	84.4	71.2
72.5°	982.8	270.5	116.9	75.2	63.0
75°	722.0	209.5	95.1	66.1	55.4
77.5°	516.6	161.2	77.3	57.5	47.8
80°	354.4	120.0	63.6	49.3	40.7
82.5°	230.3	84.9	51.4	40.7	33.6
85°	133.2	55.4	38.6	32.0	26.4
87.5°	57.5	30.5	26.4	23.9	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)