

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-LD5-18SE-N-CL-UNV-L740-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

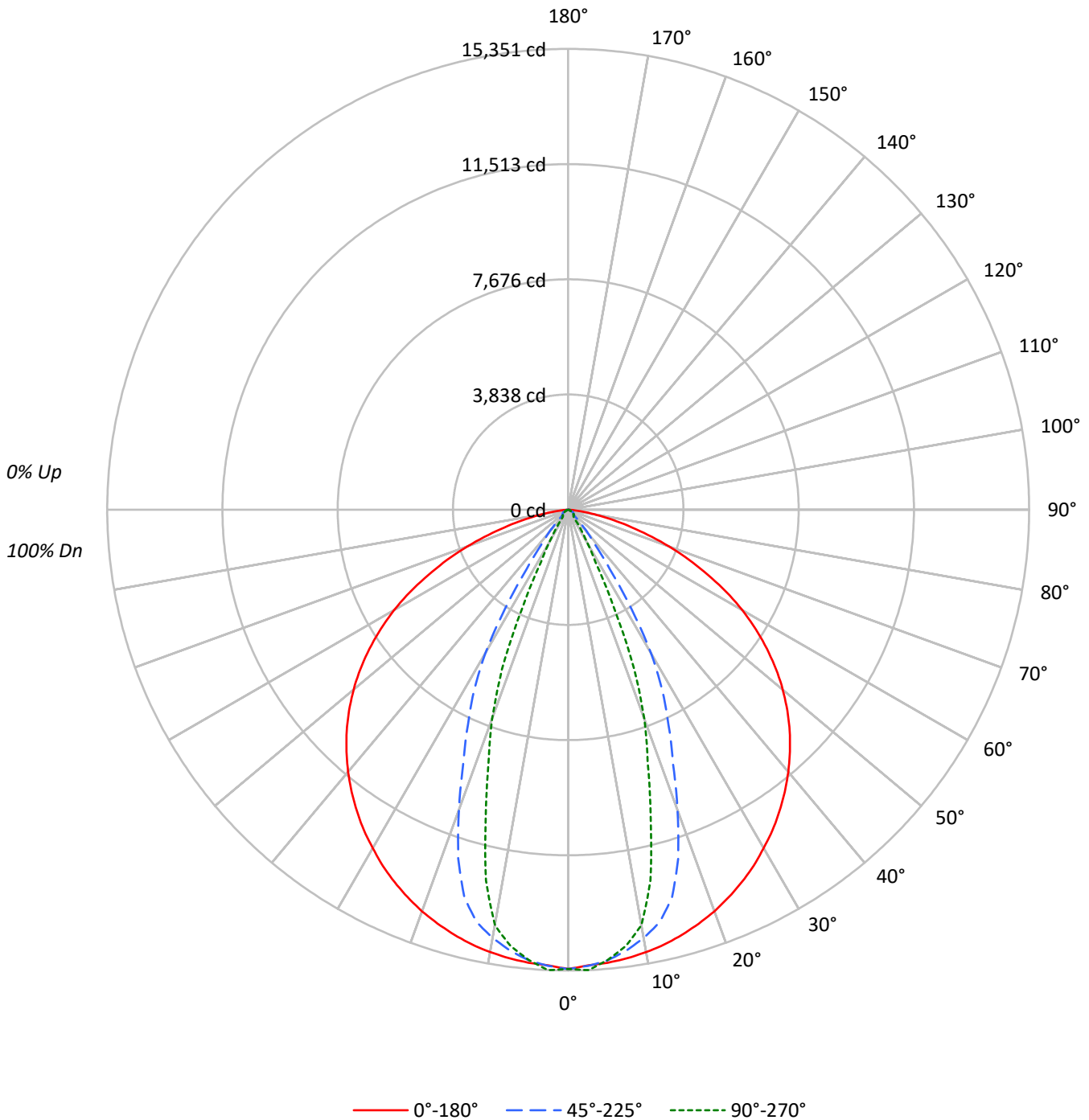
Lumens per Lamp: N/A
Luminaire Lumens: 16363.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20586	20586	20586
5°	20459	20352	20338
10°	20445	19790	19206
15°	20422	18610	14767
20°	20382	15229	10592
25°	20318	11734	5383
30°	20222	8563	1958
35°	20150	3933	681
40°	20026	1785	470
45°	19848	666	477
50°	19532	484	502
55°	18953	509	382
60°	18011	544	337
65°	16334	414	274
70°	14004	299	253
75°	10704	265	240
80°	6697	249	261
85°	2115	290	350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1424.4	8.7
10°-20°	3588.2	21.9
20°-30°	3907.7	23.9
30°-40°	2923.2	17.9
40°-50°	2101.8	12.8
50°-60°	1290.8	7.9
60°-70°	742.8	4.5
70°-80°	331.5	2.0
80°-90°	52.6	0.3
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°	8920.3	54.5
0°-40°	11843.5	72.4
0°-60°	15236.1	93.1
0°-90°	16363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15300	15300	15300	15300	15300	
5°	15148	15219	15069	15083	15058	###
15°	14661	14380	13360	11474	10602	4139
25°	13686	12704	7904	5071	3626	6309
35°	12268	8798	2394	704	415	7674
45°	10431	4943	350	259	250	8036
55°	8080	1027	217	210	163	7204
65°	5130	113	130	108	86	5079
75°	2059	68	51	52	46	2234
85°	137	13	19	24	23	273
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15299.8	15299.8	15299.8	15299.8	15299.8
2.5°	15193.4	15292.8	15209.0	15284.2	15350.7
5°	15148.0	15219.2	15068.9	15083.0	15057.9
7.5°	15069.7	15086.9	14815.2	14710.3	14659.4
10°	14964.7	14918.6	14484.8	14235.1	14057.3
12.5°	14832.4	14679.8	14073.8	13182.0	12650.4
15°	14661.0	14379.9	13359.8	11473.7	10601.5
17.5°	14456.6	14066.7	12177.6	9562.6	8807.9
20°	14235.1	13720.7	10636.0	8130.6	7397.8
22.5°	13973.6	13278.3	9115.5	6762.1	5756.0
25°	13686.2	12704.5	7903.6	5071.0	3625.7
27.5°	13376.2	11947.4	6781.7	3109.8	1960.4
30°	13016.1	11025.9	5511.8	1745.1	1260.5
32.5°	12664.5	9951.7	3937.3	1162.6	805.6
35°	12267.6	8798.5	2394.2	703.8	414.9
37.5°	11847.2	7750.1	1498.5	382.8	286.5
40°	11401.7	6755.8	1016.2	271.7	267.8
42.5°	10925.7	5856.2	636.5	258.4	267.0
45°	10430.9	4943.4	350.0	259.1	250.5
47.5°	9893.8	3952.2	244.3	245.1	244.3
50°	9330.9	2835.0	231.0	241.9	239.6
52.5°	8724.1	1760.0	231.7	236.4	212.2
55°	8079.7	1027.2	216.9	209.8	162.8
57.5°	7402.5	640.4	212.2	173.0	146.4
60°	6693.2	338.2	202.0	155.8	125.3
62.5°	5937.7	166.8	162.1	133.1	102.6
65°	5130.5	112.7	130.0	108.0	86.1
67.5°	4350.7	101.8	97.9	88.5	75.2
70°	3559.9	93.2	75.9	77.5	64.2
72.5°	2784.1	84.6	61.1	66.5	54.0
75°	2059.1	68.1	50.9	52.5	46.2
77.5°	1432.7	53.2	39.9	44.6	43.1
80°	864.3	33.7	32.1	36.8	33.7
82.5°	418.9	21.9	25.1	29.0	26.6
85°	137.0	13.3	18.8	24.3	22.7
87.5°	17.2	7.8	15.7	21.1	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)