

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-UNV-L840-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

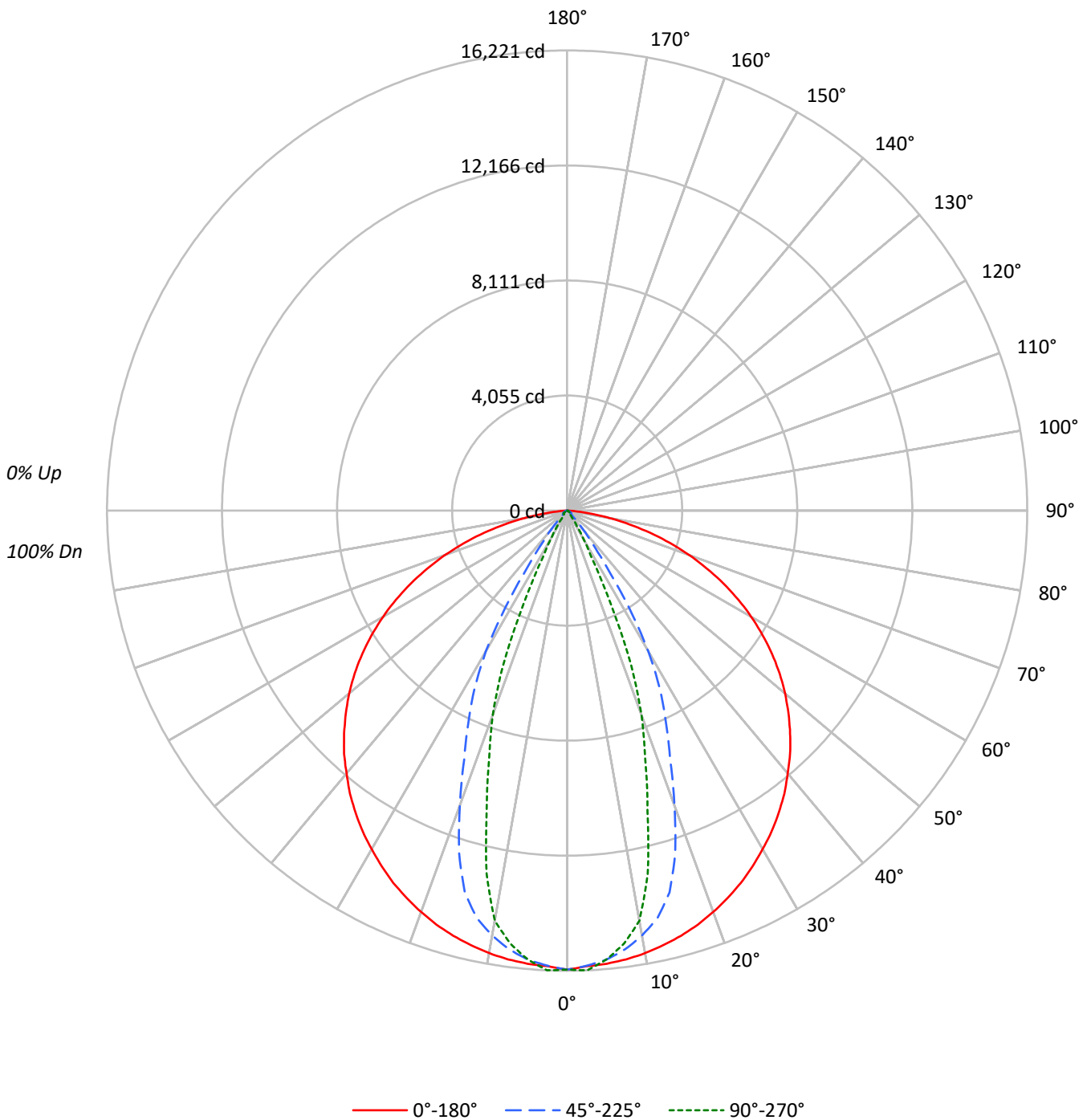
Lumens per Lamp: N/A
Luminaire Lumens: 17199.0 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21772	21772	21772
5°	21656	21464	21455
10°	21642	20777	20048
15°	21612	19410	15257
20°	21561	15823	10982
25°	21506	12235	5410
30°	21411	8892	1755
35°	21361	3945	451
40°	21249	1602	304
45°	21154	450	324
50°	20989	319	359
55°	20687	379	153
60°	20176	422	93
65°	19346	270	110
70°	17973	239	136
75°	15723	180	188
80°	11756	221	268
85°	5823	286	357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1501.7	8.7
10°-20°	3754.9	21.8
20°-30°	4067.2	23.6
30°-40°	3011.9	17.5
40°-50°	2169.4	12.6
50°-60°	1343.2	7.8
60°-70°	826.1	4.8
70°-80°	435.5	2.5
80°-90°	89.1	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°	9323.8	54.2
0°-40°	12335.7	71.7
0°-60°	15848.3	92.1
0°-90°	17199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16182	16182	16182	16182	16182	
5°	16034	16093	15892	15904	15885	###
15°	15515	15155	13935	11850	10953	4380
25°	14486	13270	8241	5184	3644	6675
35°	13005	9168	2402	565	275	8136
45°	11117	5165	236	171	170	8574
55°	8819	1064	162	146	65	7872
65°	6077	112	85	54	35	5996
75°	3024	26	35	45	36	3194
85°	377	10	18	28	23	570
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16181.6	16181.6	16181.6	16181.6	16181.6
2.5°	16077.7	16180.1	16059.2	16149.3	16220.9
5°	16033.8	16093.1	15892.2	15903.7	15885.2
7.5°	15956.8	15943.0	15605.0	15457.2	15392.6
10°	15840.6	15749.0	15207.1	14898.4	14673.6
12.5°	15690.5	15485.7	14710.5	13729.1	13119.4
15°	15515.0	15154.7	13934.6	11850.0	10953.2
17.5°	15305.6	14795.2	12666.0	9931.7	9131.2
20°	15058.5	14394.2	11051.0	8449.9	7670.1
22.5°	14782.9	13906.1	9482.2	7022.7	5910.4
25°	14486.5	13269.5	8241.3	5184.5	3644.2
27.5°	14144.0	12451.2	7077.4	3053.7	1859.8
30°	13781.4	11465.9	5723.3	1642.7	1129.3
32.5°	13415.8	10349.0	4049.8	1026.1	640.5
35°	13004.7	9168.1	2401.7	565.0	274.8
37.5°	12575.9	8085.8	1419.5	257.1	176.3
40°	12097.9	7096.6	912.2	170.9	173.2
42.5°	11636.0	6174.4	513.4	168.6	171.7
45°	11117.2	5165.2	236.3	170.9	170.1
47.5°	10580.7	4119.1	153.2	172.4	172.4
50°	10027.2	2945.2	152.4	176.3	171.7
52.5°	9442.9	1837.5	158.6	175.5	140.9
55°	8818.6	1063.8	161.7	146.3	65.4
57.5°	8172.0	627.4	163.2	83.9	36.9
60°	7497.7	347.2	157.0	62.4	34.6
62.5°	6802.6	165.5	123.9	58.5	33.9
65°	6076.7	112.4	84.7	53.9	34.6
67.5°	5323.0	87.0	67.0	50.8	35.4
70°	4568.7	64.7	60.8	50.8	34.6
72.5°	3802.0	43.9	50.8	51.6	34.6
75°	3024.5	26.2	34.6	45.4	36.2
77.5°	2253.9	16.2	26.9	47.0	43.9
80°	1517.2	13.9	28.5	43.9	34.6
82.5°	890.6	12.3	27.7	33.9	27.7
85°	377.2	10.0	18.5	27.7	23.1
87.5°	70.8	8.5	14.6	22.3	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)