

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-W-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-W-CLWG-UNV-L840-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

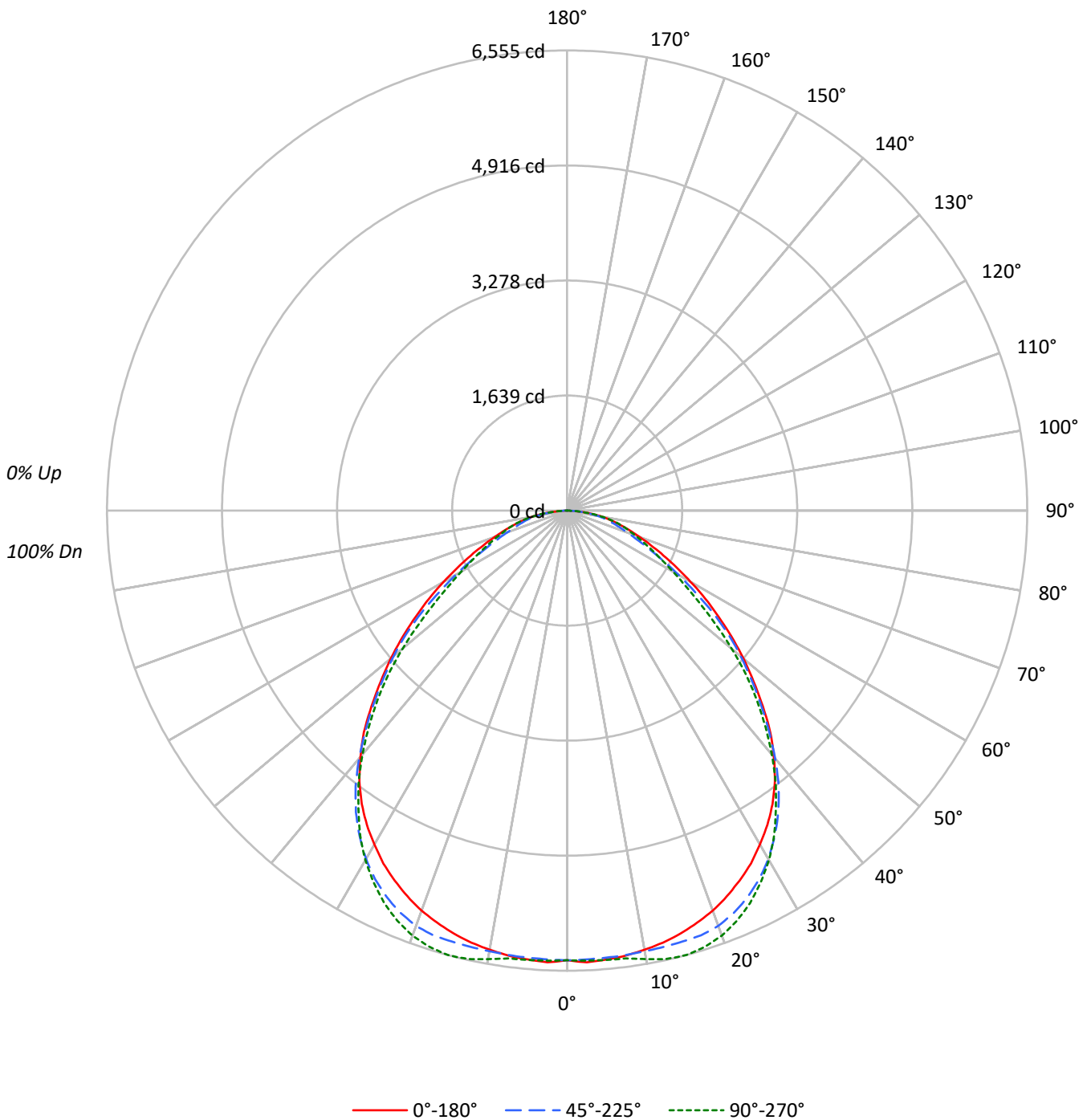
Lumens per Lamp: N/A  
Luminaire Lumens: 15978.0 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8620	8620	8620
5°	8671	8635	8678
10°	8679	8708	8864
15°	8690	8853	9131
20°	8684	9015	9225
25°	8631	9023	9156
30°	8531	8904	8932
35°	8379	8615	8512
40°	8049	8098	7970
45°	7499	7421	7270
50°	6866	6755	6410
55°	6167	5939	5419
60°	5470	4914	4678
65°	4819	4082	4246
70°	4310	3543	4044
75°	4038	3445	4089
80°	3931	3483	3893
85°	3138	2756	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.3	3.8
10°-20°	1797.7	11.3
20°-30°	2765.5	17.3
30°-40°	3227.5	20.2
40°-50°	2999.2	18.8
50°-60°	2223.1	13.9
60°-70°	1359.0	8.5
70°-80°	774.1	4.8
80°-90°	221.4	1.4
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°	5173.5	32.4
0°-40°	8401.1	52.6
0°-60°	13623.4	85.3
0°-90°	15978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15978.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6407	6407	6407	6407	6407	
5°	6420	6390	6394	6388	6425	611
15°	6238	6235	6356	6481	6555	1761
25°	5814	5858	6078	6129	6167	2678
35°	5101	5141	5245	5202	5182	3178
45°	3941	3964	3900	3839	3821	3037
55°	2629	2563	2532	2352	2310	2359
65°	1514	1375	1282	1317	1334	1515
75°	777	729	663	755	787	831
85°	203	198	178	185	185	234
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6406.7	6406.7	6406.7	6406.7	6406.7
2.5°	6441.4	6405.1	6398.5	6383.6	6416.6
5°	6419.9	6390.2	6393.5	6388.5	6424.9
7.5°	6395.1	6373.7	6386.9	6385.2	6433.2
10°	6352.2	6340.6	6373.7	6410.0	6487.7
12.5°	6304.3	6292.7	6365.4	6457.9	6542.2
15°	6238.2	6234.9	6355.5	6481.1	6555.4
17.5°	6155.5	6160.5	6343.9	6451.3	6517.4
20°	6064.7	6072.9	6296.0	6383.6	6443.1
22.5°	5947.3	5975.4	6203.5	6276.2	6322.4
25°	5813.5	5858.1	6077.9	6129.1	6167.1
27.5°	5669.7	5714.3	5922.5	5949.0	5970.5
30°	5491.2	5554.0	5730.8	5734.2	5749.0
32.5°	5309.5	5365.6	5501.2	5486.3	5489.6
35°	5101.2	5140.9	5245.0	5202.0	5182.2
37.5°	4861.6	4883.1	4949.2	4884.8	4881.5
40°	4582.4	4610.5	4610.5	4521.2	4537.7
42.5°	4284.9	4294.8	4253.5	4169.2	4182.5
45°	3941.2	3964.3	3899.9	3838.7	3820.6
47.5°	3600.8	3623.9	3556.2	3485.1	3453.7
50°	3280.2	3268.6	3227.3	3106.7	3062.1
52.5°	2948.0	2911.7	2895.2	2718.4	2667.1
55°	2629.1	2563.0	2531.6	2351.5	2310.2
57.5°	2333.3	2214.3	2154.9	2014.4	1997.9
60°	2032.6	1898.7	1826.0	1735.1	1738.4
62.5°	1759.9	1619.4	1531.9	1505.4	1517.0
65°	1513.7	1374.9	1282.3	1317.0	1333.6
67.5°	1290.6	1176.6	1072.5	1153.4	1170.0
70°	1095.6	1004.7	900.6	1019.6	1027.9
72.5°	933.7	859.3	771.7	884.1	902.3
75°	776.7	728.7	662.6	755.2	786.6
77.5°	639.5	601.5	563.5	619.7	654.4
80°	507.3	469.3	449.5	479.2	502.4
82.5°	358.6	333.8	314.0	335.5	347.0
85°	203.3	198.3	178.5	185.1	185.1
87.5°	46.3	52.9	59.5	54.5	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)