

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-CLI-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 (P23769)
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-CLI-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

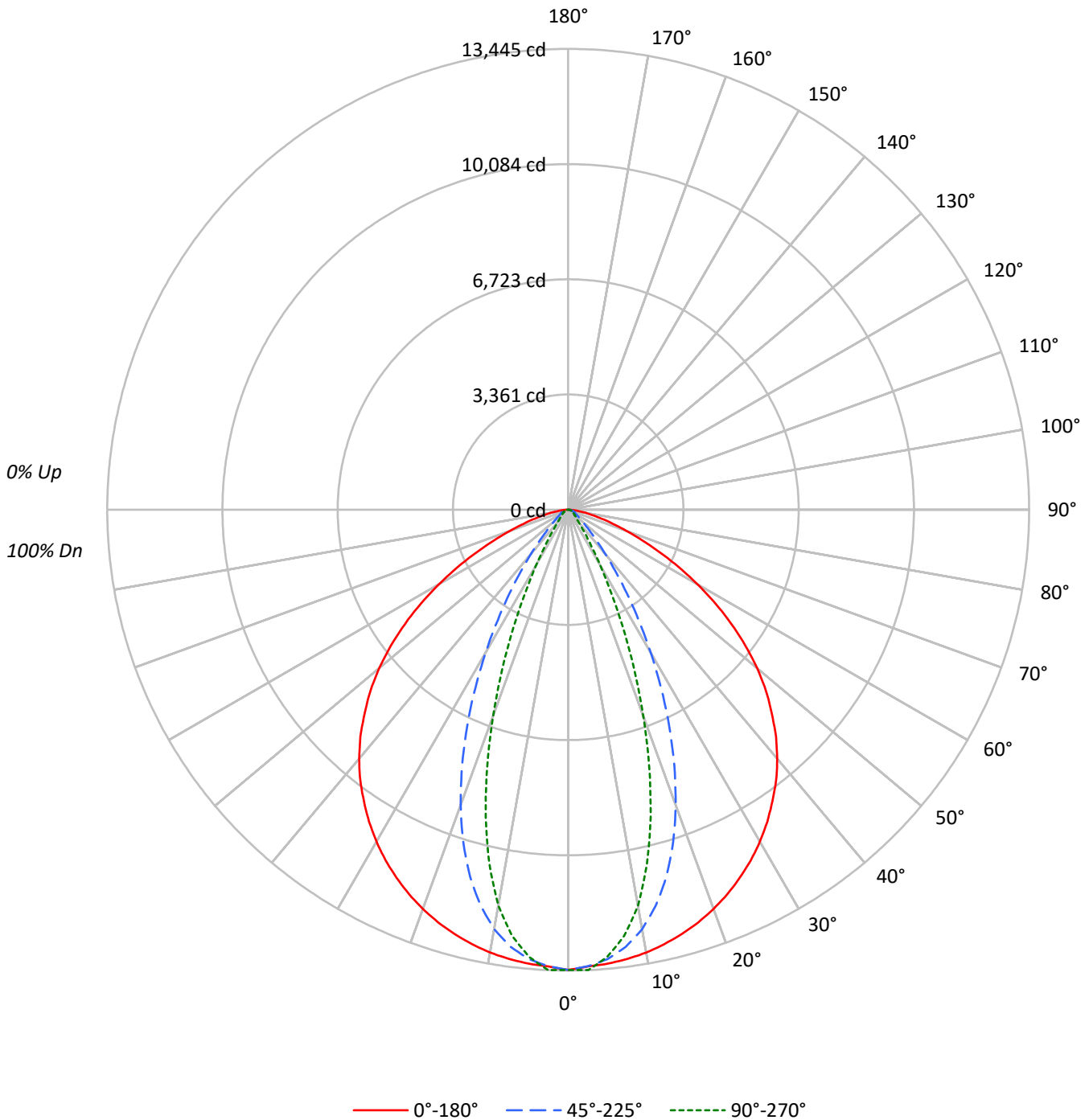
Lumens per Lamp: N/A
Luminaire Lumens: 14699.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	18065	18065	18065
5°	17956	17778	17684
10°	17927	16973	16016
15°	17854	15428	12935
20°	17747	13128	9168
25°	17588	10352	5539
30°	17375	7471	2847
35°	17061	4884	1422
40°	16657	2934	830
45°	15965	1752	620
50°	15057	1146	521
55°	13628	869	455
60°	11711	740	415
65°	9420	676	392
70°	7097	723	389
75°	5220	687	401
80°	3819	685	439
85°	2861	829	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1236.5	8.4
10°-20°	3076.2	20.9
20°-30°	3407.3	23.2
30°-40°	2729.9	18.6
40°-50°	1948.8	13.3
50°-60°	1251.7	8.5
60°-70°	678.4	4.6
70°-80°	289.9	2.0
80°-90°	80.4	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°	7720.0	52.5
0°-40°	10449.8	71.1
0°-60°	13650.3	92.9
0°-90°	14699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13426	13426	13426	13426	13426	
5°	13295	13344	13163	13121	13093	###
15°	12818	12417	11076	9788	9286	3616
25°	11847	10446	6973	4543	3731	5458
35°	10387	7513	2974	1199	866	6494
45°	8390	4337	921	392	326	6467
55°	5810	1939	371	228	194	5177
65°	2959	796	212	146	123	2963
75°	1004	291	132	92	77	1116
85°	185	77	54	45	37	226
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13426.5	13426.5	13426.5	13426.5	13426.5
2.5°	13338.1	13421.5	13331.7	13387.6	13444.9
5°	13294.9	13344.4	13162.7	13121.0	13093.4
7.5°	13220.0	13205.8	12864.3	12642.9	12536.1
10°	13121.0	13006.4	12423.0	11936.5	11722.9
12.5°	12979.5	12743.3	11825.4	10971.2	10609.1
15°	12817.6	12416.6	11075.8	9788.0	9285.9
17.5°	12623.8	12034.7	10179.8	8519.4	7856.7
20°	12394.7	11573.7	9168.6	7171.5	6402.8
22.5°	12138.7	11041.9	8085.9	5827.9	5003.3
25°	11847.3	10446.4	6972.8	4542.9	3731.1
27.5°	11532.7	9785.2	5866.0	3394.5	2654.0
30°	11183.3	9069.6	4808.8	2447.5	1832.3
32.5°	10802.1	8308.6	3826.5	1721.3	1253.1
35°	10387.0	7513.1	2973.7	1199.4	865.6
37.5°	9962.0	6701.2	2246.0	847.9	620.9
40°	9483.3	5892.2	1670.4	620.9	472.4
42.5°	8969.1	5098.8	1236.1	478.1	382.6
45°	8390.0	4337.1	920.7	391.8	326.0
47.5°	7828.5	3627.1	699.4	333.8	283.6
50°	7193.4	2986.4	547.4	291.4	248.9
52.5°	6519.5	2422.8	444.1	256.7	219.2
55°	5809.5	1939.1	370.6	227.7	193.8
57.5°	5090.3	1536.0	316.8	203.0	172.6
60°	4352.0	1228.4	275.1	181.7	154.2
62.5°	3631.4	982.3	240.4	163.4	137.9
65°	2958.8	796.3	212.2	146.4	123.0
67.5°	2337.2	629.4	198.0	131.5	111.0
70°	1804.0	490.1	183.9	117.4	99.0
72.5°	1367.0	376.2	162.7	104.7	87.7
75°	1004.2	291.4	132.2	91.9	77.1
77.5°	718.5	224.2	107.5	79.9	66.5
80°	492.9	166.9	88.4	68.6	56.6
82.5°	320.4	118.1	71.4	56.6	46.7
85°	185.3	77.1	53.7	44.6	36.8
87.5°	79.9	42.4	36.8	33.2	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)