

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-L850-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-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

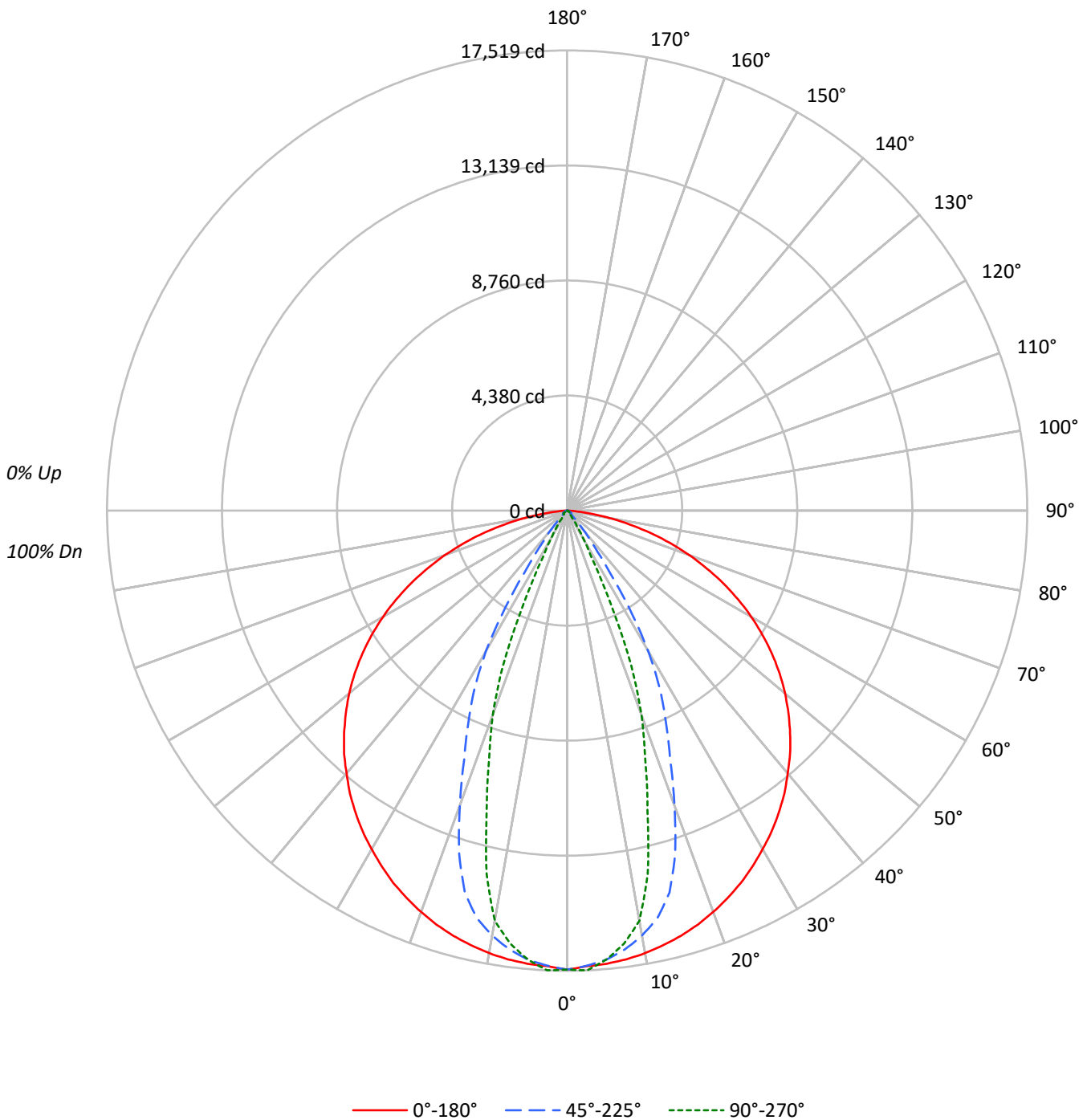
Lumens per Lamp: N/A
Luminaire Lumens: 18575.0 lumens
Efficiency: N/A
Efficacy: 166.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23514	23514	23514
5°	23388	23182	23172
10°	23374	22439	21652
15°	23341	20963	16478
20°	23286	17089	11861
25°	23227	13214	5843
30°	23124	9603	1895
35°	23070	4261	488
40°	22949	1730	329
45°	22846	486	350
50°	22668	345	388
55°	22342	410	166
60°	21790	456	101
65°	20894	291	119
70°	19411	258	147
75°	16981	194	203
80°	12696	239	290
85°	6289	309	384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1621.8	8.7
10°-20°	4055.3	21.8
20°-30°	4392.6	23.6
30°-40°	3252.9	17.5
40°-50°	2342.9	12.6
50°-60°	1450.7	7.8
60°-70°	892.2	4.8
70°-80°	470.3	2.5
80°-90°	96.3	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°	10069.7	54.2
0°-40°	13322.6	71.7
0°-60°	17116.3	92.1
0°-90°	18575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17476	17476	17476	17476	17476	
5°	17317	17381	17164	17176	17156	###
15°	16756	16367	15049	12798	11830	4730
25°	15646	14331	8901	5599	3936	7209
35°	14045	9902	2594	610	297	8787
45°	12007	5578	255	185	184	9260
55°	9524	1149	175	158	71	8502
65°	6563	121	92	58	37	6475
75°	3266	28	37	49	39	3450
85°	407	11	20	30	25	616
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17476.2	17476.2	17476.2	17476.2	17476.2
2.5°	17364.0	17474.5	17344.0	17441.3	17518.6
5°	17316.6	17380.6	17163.6	17176.1	17156.1
7.5°	17233.4	17218.5	16853.5	16693.9	16624.1
10°	17107.9	17009.0	16423.7	16090.3	15847.6
12.5°	16945.8	16724.6	15887.5	14827.5	14169.0
15°	16756.2	16367.2	15049.4	12798.1	11829.5
17.5°	16530.1	15978.9	13679.3	10726.3	9861.7
20°	16263.2	15545.8	11935.1	9125.9	8283.8
22.5°	15965.6	15018.7	10240.8	7584.6	6383.2
25°	15645.5	14331.1	8900.6	5599.3	3935.7
27.5°	15275.6	13447.4	7643.6	3298.0	2008.6
30°	14884.0	12383.2	6181.2	1774.1	1219.6
32.5°	14489.1	11176.9	4373.8	1108.2	691.7
35°	14045.1	9901.6	2593.9	610.2	296.8
37.5°	13582.1	8732.7	1533.0	277.7	190.4
40°	13065.8	7664.4	985.2	184.6	187.1
42.5°	12567.0	6668.4	554.5	182.1	185.4
45°	12006.6	5578.5	255.2	184.6	183.7
47.5°	11427.2	4448.7	165.4	186.2	186.2
50°	10829.4	3180.8	164.6	190.4	185.4
52.5°	10198.4	1984.5	171.3	189.6	152.1
55°	9524.2	1149.0	174.6	158.0	70.7
57.5°	8825.8	677.6	176.3	90.6	39.9
60°	8097.5	374.9	169.6	67.3	37.4
62.5°	7346.8	178.7	133.9	63.2	36.6
65°	6562.8	121.4	91.5	58.2	37.4
67.5°	5748.9	93.9	72.3	54.9	38.2
70°	4934.2	69.8	65.7	54.9	37.4
72.5°	4106.1	47.4	54.9	55.7	37.4
75°	3266.4	28.3	37.4	49.1	39.1
77.5°	2434.2	17.5	29.1	50.7	47.4
80°	1638.6	15.0	30.8	47.4	37.4
82.5°	961.9	13.3	29.9	36.6	29.9
85°	407.4	10.8	20.0	29.9	24.9
87.5°	76.5	9.1	15.8	24.1	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)