

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-UNV-L850-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 (P23767)
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-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

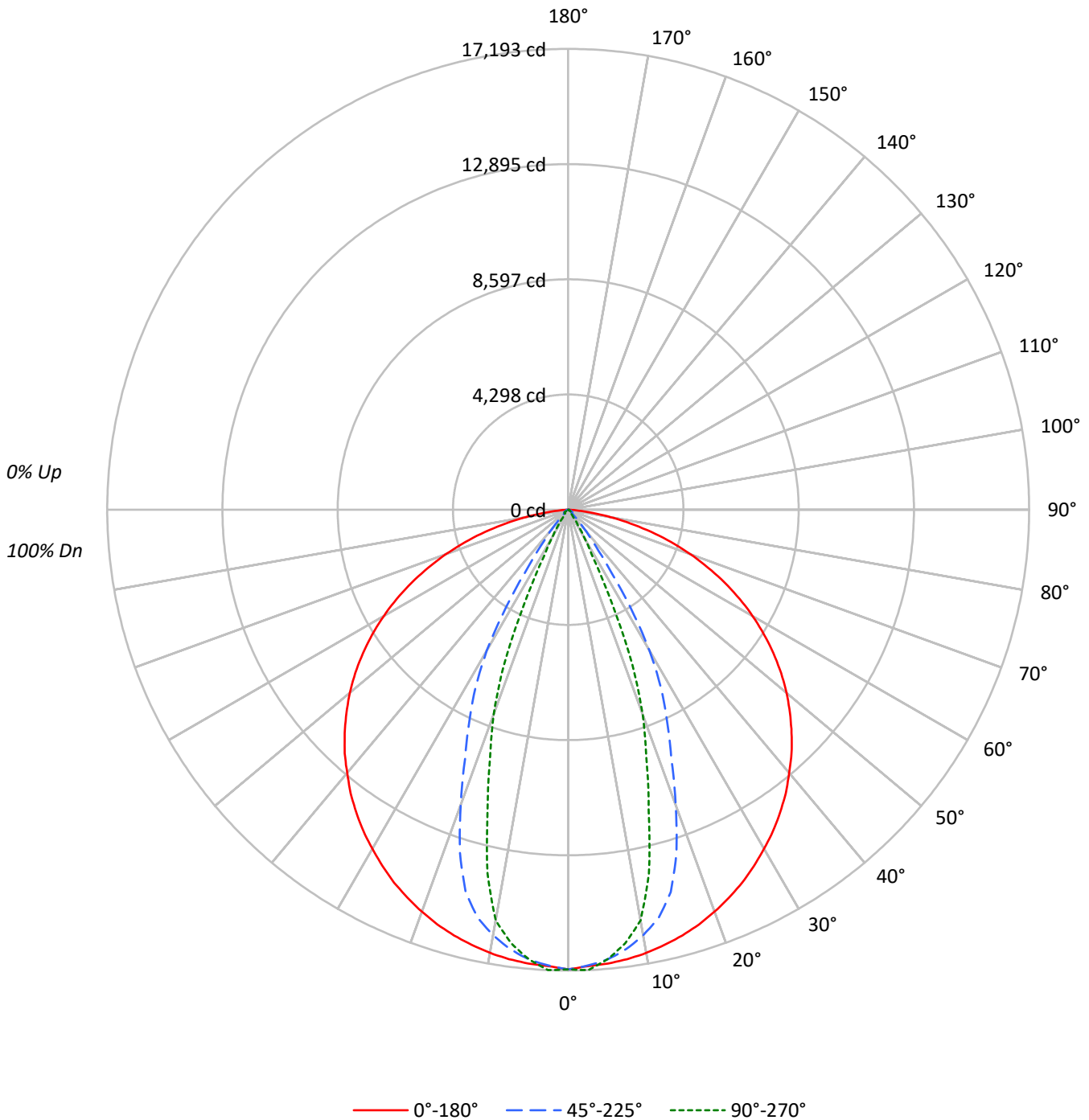
Lumens per Lamp: N/A
Luminaire Lumens: 18230.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	23077	23077	23077
5°	22954	22751	22741
10°	22940	22022	21249
15°	22907	20574	16172
20°	22854	16772	11641
25°	22796	12968	5734
30°	22695	9425	1860
35°	22641	4181	478
40°	22523	1698	322
45°	22422	477	343
50°	22247	338	381
55°	21927	402	163
60°	21385	448	99
65°	20506	286	117
70°	19050	254	144
75°	16666	191	199
80°	12461	234	284
85°	6172	303	378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1591.7	8.7
10°-20°	3980.0	21.8
20°-30°	4311.0	23.6
30°-40°	3192.5	17.5
40°-50°	2299.4	12.6
50°-60°	1423.8	7.8
60°-70°	875.6	4.8
70°-80°	461.6	2.5
80°-90°	94.5	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°	9882.7	54.2
0°-40°	13075.2	71.7
0°-60°	16798.3	92.1
0°-90°	18230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17152	17152	17152	17152	17152	
5°	16995	17058	16845	16857	16838	###
15°	16445	16063	14770	12560	11610	4642
25°	15355	14065	8735	5495	3863	7075
35°	13784	9718	2546	599	291	8624
45°	11784	5475	250	181	180	9088
55°	9347	1128	171	155	69	8344
65°	6441	119	90	57	37	6355
75°	3206	28	37	48	38	3386
85°	400	11	20	29	24	604
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17151.6	17151.6	17151.6	17151.6	17151.6
2.5°	17041.5	17150.0	17021.9	17117.3	17193.2
5°	16995.0	17057.8	16844.8	16857.1	16837.5
7.5°	16913.4	16898.7	16540.5	16383.8	16315.3
10°	16790.2	16693.1	16118.6	15791.5	15553.2
12.5°	16631.1	16414.0	15592.4	14552.1	13905.9
15°	16445.0	16063.2	14769.9	12560.4	11609.8
17.5°	16223.1	15682.1	13425.3	10527.1	9678.5
20°	15961.2	15257.0	11713.5	8956.4	8129.9
22.5°	15669.1	14739.7	10050.6	7443.7	6264.7
25°	15354.9	14065.0	8735.3	5495.3	3862.6
27.5°	14991.9	13197.6	7501.6	3236.8	1971.3
30°	14607.6	12153.2	6066.4	1741.2	1197.0
32.5°	14220.0	10969.3	4292.6	1087.6	678.9
35°	13784.3	9717.7	2545.7	598.9	291.3
37.5°	13329.8	8570.5	1504.6	272.5	186.8
40°	12823.1	7522.0	966.9	181.1	183.6
42.5°	12333.6	6544.6	544.2	178.7	182.0
45°	11783.6	5474.9	250.5	181.1	180.3
47.5°	11214.9	4366.0	162.4	182.8	182.8
50°	10628.3	3121.7	161.6	186.8	182.0
52.5°	10009.0	1947.6	168.1	186.0	149.3
55°	9347.3	1127.6	171.3	155.0	69.4
57.5°	8661.9	665.0	173.0	88.9	39.2
60°	7947.1	368.0	166.4	66.1	36.7
62.5°	7210.4	175.4	131.4	62.0	35.9
65°	6440.9	119.1	89.8	57.1	36.7
67.5°	5642.1	92.2	71.0	53.9	37.5
70°	4842.5	68.5	64.5	53.9	36.7
72.5°	4029.9	46.5	53.9	54.7	36.7
75°	3205.8	27.7	36.7	48.1	38.3
77.5°	2389.0	17.1	28.6	49.8	46.5
80°	1608.2	14.7	30.2	46.5	36.7
82.5°	944.0	13.1	29.4	35.9	29.4
85°	399.8	10.6	19.6	29.4	24.5
87.5°	75.1	9.0	15.5	23.7	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)