

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

Luminaire Equipment: Sample No. Condition Description

Summary

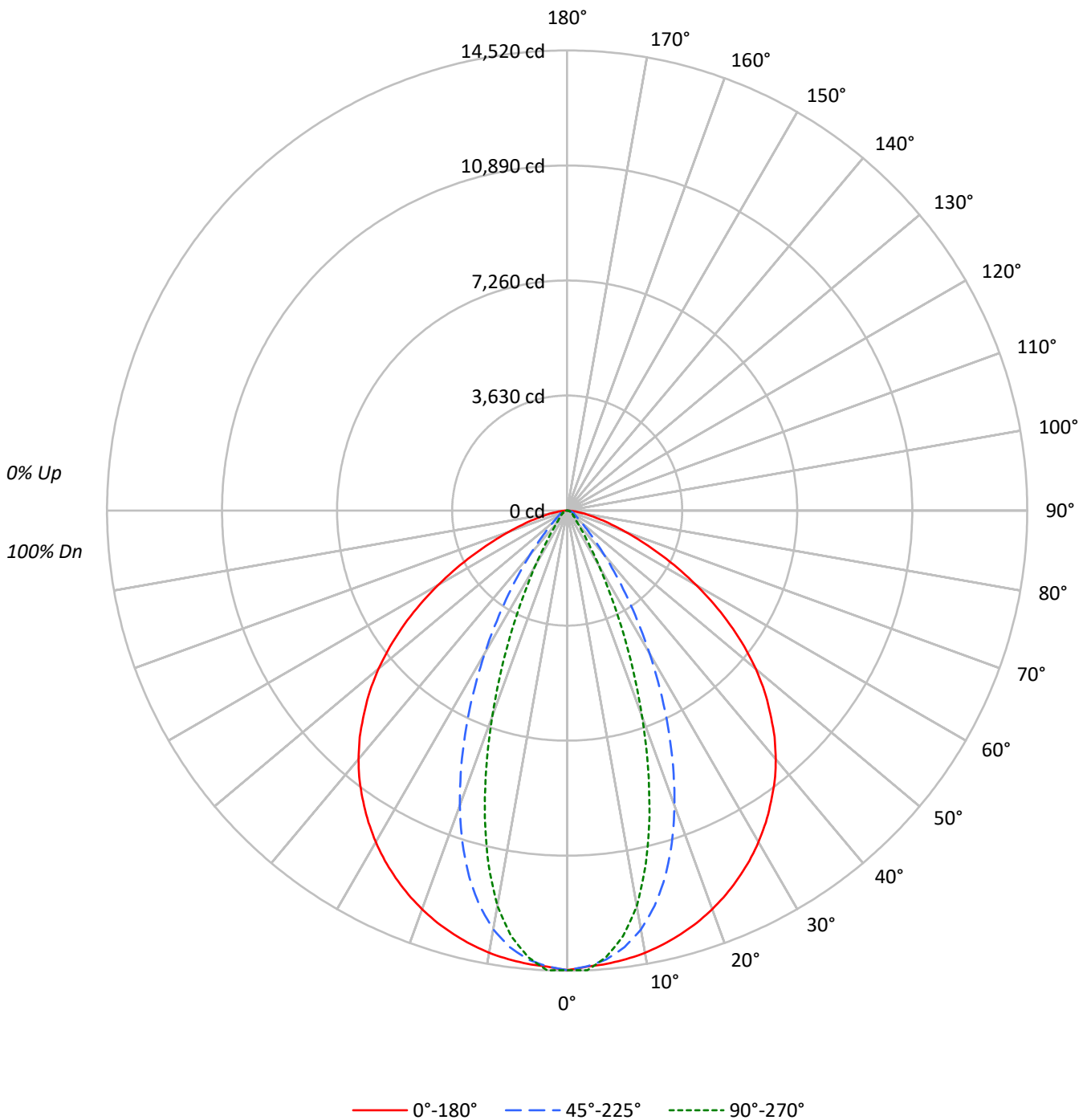
Lumens per Lamp: N/A
Luminaire Lumens: 15875.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	19511	19511	19511
5°	19393	19200	19099
10°	19361	18331	17298
15°	19283	16662	13970
20°	19167	14178	9901
25°	18996	11180	5982
30°	18765	8069	3074
35°	18426	5275	1535
40°	17989	3169	896
45°	17242	1892	670
50°	16262	1237	563
55°	14718	939	491
60°	12648	799	448
65°	10174	729	423
70°	7665	781	421
75°	5638	742	433
80°	4124	740	473
85°	3089	895	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1335.4	8.4
10°-20°	3322.3	20.9
20°-30°	3679.9	23.2
30°-40°	2948.3	18.6
40°-50°	2104.7	13.3
50°-60°	1351.9	8.5
60°-70°	732.6	4.6
70°-80°	313.1	2.0
80°-90°	86.8	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°	8337.6	52.5
0°-40°	11285.9	71.1
0°-60°	14742.4	92.9
0°-90°	15875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14501	14501	14501	14501	14501	
5°	14359	14412	14216	14171	14141	###
15°	13843	13410	11962	10571	10029	3906
25°	12795	11282	7531	4906	4030	5895
35°	11218	8114	3212	1295	935	7014
45°	9061	4684	994	423	352	6984
55°	6274	2094	400	246	209	5592
65°	3196	860	229	158	133	3200
75°	1084	315	143	99	83	1205
85°	200	83	58	48	40	244
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14500.7	14500.7	14500.7	14500.7	14500.7
2.5°	14405.2	14495.3	14398.3	14458.7	14520.5
5°	14358.6	14412.1	14215.8	14170.7	14140.9
7.5°	14277.6	14262.4	13893.5	13654.4	13539.1
10°	14170.7	14047.0	13416.9	12891.4	12660.8
12.5°	14018.0	13762.9	12771.5	11848.9	11457.9
15°	13843.1	13410.0	11961.9	10571.1	10028.9
17.5°	13633.8	12997.6	10994.3	9201.0	8485.3
20°	13386.3	12499.6	9902.1	7745.2	6915.0
22.5°	13109.9	11925.3	8732.8	6294.1	5403.6
25°	12795.2	11282.2	7530.6	4906.4	4029.6
27.5°	12455.3	10568.1	6335.4	3666.0	2866.4
30°	12078.0	9795.2	5193.5	2643.4	1978.9
32.5°	11666.4	8973.4	4132.7	1859.0	1353.4
35°	11218.0	8114.1	3211.6	1295.3	934.8
37.5°	10759.0	7237.3	2425.7	915.7	670.6
40°	10242.0	6363.6	1804.0	670.6	510.2
42.5°	9686.7	5506.7	1335.0	516.3	413.2
45°	9061.2	4684.1	994.4	423.1	352.1
47.5°	8454.8	3917.3	755.4	360.5	306.3
50°	7768.9	3225.3	591.1	314.7	268.8
52.5°	7041.1	2616.6	479.6	277.2	236.8
55°	6274.3	2094.2	400.2	245.9	209.3
57.5°	5497.5	1658.9	342.2	219.2	186.4
60°	4700.2	1326.6	297.1	196.3	166.5
62.5°	3921.9	1060.9	259.7	176.4	148.9
65°	3195.6	860.0	229.1	158.1	132.9
67.5°	2524.2	679.7	213.9	142.1	119.9
70°	1948.3	529.3	198.6	126.8	106.9
72.5°	1476.3	406.3	175.7	113.0	94.7
75°	1084.5	314.7	142.8	99.3	83.2
77.5°	776.0	242.1	116.1	86.3	71.8
80°	532.3	180.2	95.5	74.1	61.1
82.5°	346.0	127.5	77.1	61.1	50.4
85°	200.1	83.2	58.0	48.1	39.7
87.5°	86.3	45.8	39.7	35.9	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)