

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CLWG-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

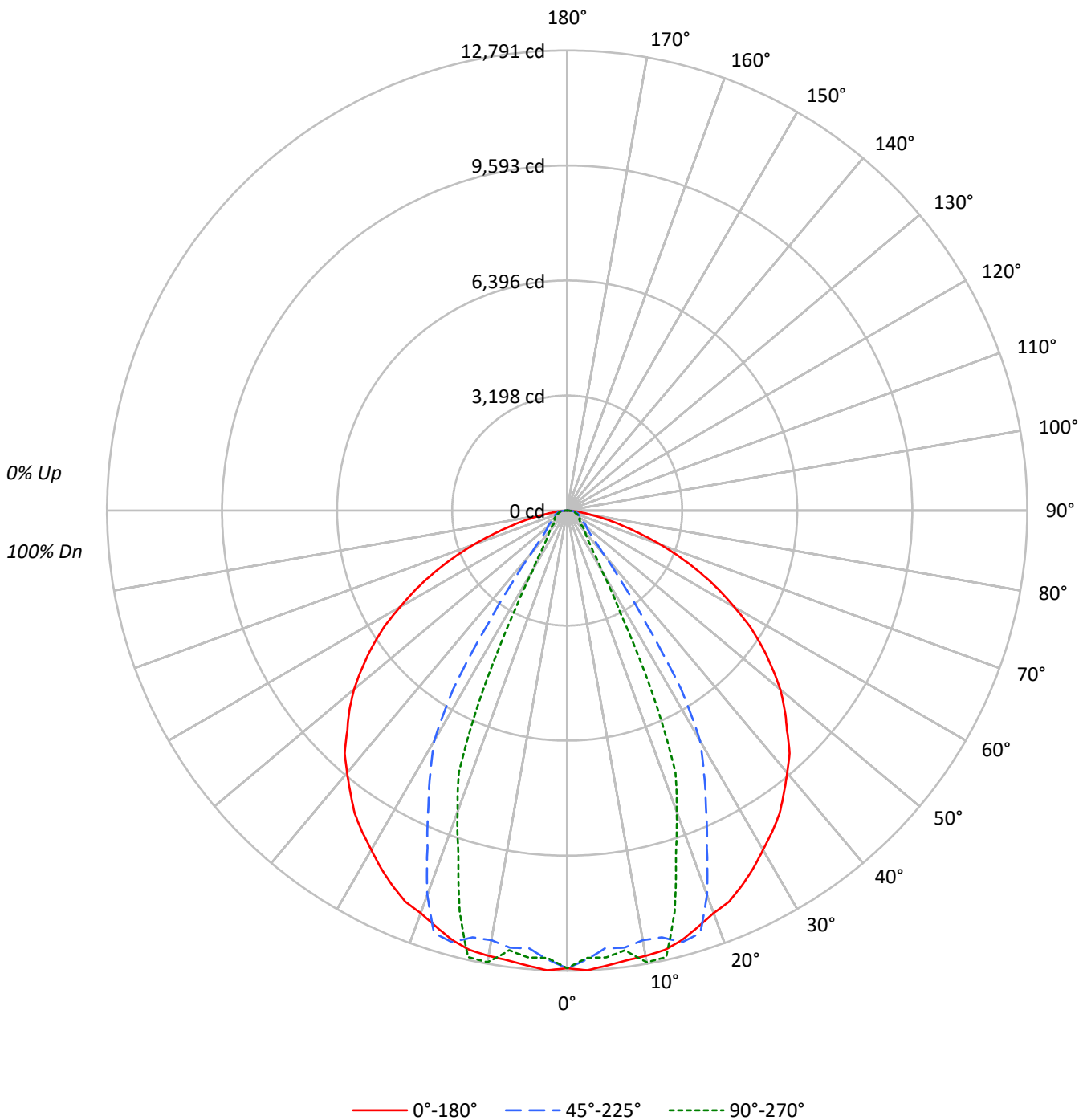
Lumens per Lamp: N/A
Luminaire Lumens: 17102.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (A_{in}): 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17116	17116	17116
5°	17145	16492	16839
10°	17170	16571	17421
15°	17208	17297	16077
20°	17045	16269	12761
25°	17070	13563	8336
30°	16916	11490	2994
35°	16899	6224	1684
40°	16708	2713	1319
45°	16449	1677	1034
50°	16193	1461	976
55°	15556	1267	955
60°	14433	1135	1027
65°	12974	1283	1122
70°	10881	1380	1157
75°	8134	1573	1252
80°	5108	1827	1428
85°	3401	2289	2092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1179.1	6.9
10°-20°	3329.5	19.5
20°-30°	4077.1	23.8
30°-40°	3201.7	18.7
40°-50°	2374.3	13.9
50°-60°	1445.4	8.5
60°-70°	865.8	5.1
70°-80°	475.0	2.8
80°-90°	154.1	0.9
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
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0°-30°	8585.6	50.2
0°-40°	11787.4	68.9
0°-60°	15607.1	91.3
0°-90°	17102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12721	12721	12721	12721	12721	
5°	12694	12348	12210	12345	12468	###
15°	12354	12015	12418	11916	11542	3478
25°	11498	11534	9136	7166	5615	5293
35°	10288	9359	3790	1268	1025	6420
45°	8645	6207	881	668	544	6685
55°	6632	1710	540	457	407	5901
65°	4075	504	403	379	352	4026
75°	1565	318	303	263	241	1694
85°	220	173	148	136	136	269
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12721.3	12721.3	12721.3	12721.3	12721.3
2.5°	12790.8	12618.4	12486.4	12412.7	12442.7
5°	12693.9	12348.4	12210.3	12344.9	12467.5
7.5°	12609.9	12096.3	12252.4	12264.4	12328.7
10°	12567.0	12072.3	12128.9	12395.5	12751.3
12.5°	12510.4	12128.0	12147.8	12511.3	12711.9
15°	12353.5	12014.9	12417.8	11916.3	11541.6
17.5°	12124.6	11750.8	12304.7	10556.5	10047.3
20°	11904.3	11463.6	11362.4	9403.4	8912.1
22.5°	11762.0	11419.9	10150.1	8378.9	7871.3
25°	11497.9	11533.9	9135.9	7165.7	5614.8
27.5°	11207.2	11265.5	8239.1	4778.9	3216.8
30°	10888.3	10955.2	7395.5	2824.1	1927.3
32.5°	10599.4	10222.2	5906.3	1761.8	1340.0
35°	10288.2	9358.8	3789.5	1268.0	1025.4
37.5°	9896.4	8451.7	2398.9	1003.1	860.8
40°	9512.3	7637.3	1544.9	856.5	751.0
42.5°	9153.0	6965.9	1124.0	748.5	678.2
45°	8644.6	6207.2	881.4	667.9	543.6
47.5°	8204.8	5317.3	770.8	565.0	469.0
50°	7735.8	4065.5	697.9	502.4	466.4
52.5°	7179.4	2659.5	644.7	481.0	435.5
55°	6631.6	1710.4	540.1	457.0	407.2
57.5°	6040.0	1084.5	476.7	443.2	425.2
60°	5363.6	731.3	421.8	420.1	381.5
62.5°	4737.7	601.0	407.2	403.0	360.9
65°	4075.0	504.1	403.0	378.9	352.4
67.5°	3413.1	432.1	364.4	346.4	323.2
70°	2765.8	395.2	350.7	342.9	294.1
72.5°	2100.5	325.8	311.2	290.6	244.3
75°	1564.7	318.1	302.6	263.2	240.9
77.5°	1058.8	293.2	275.2	235.8	217.8
80°	659.3	269.2	235.8	206.6	184.3
82.5°	391.8	224.6	193.8	170.6	156.0
85°	220.3	173.2	148.3	136.3	135.5
87.5°	47.2	62.6	49.7	47.2	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)