

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-CLI-UNV-L735-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 (P23769)
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-CLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

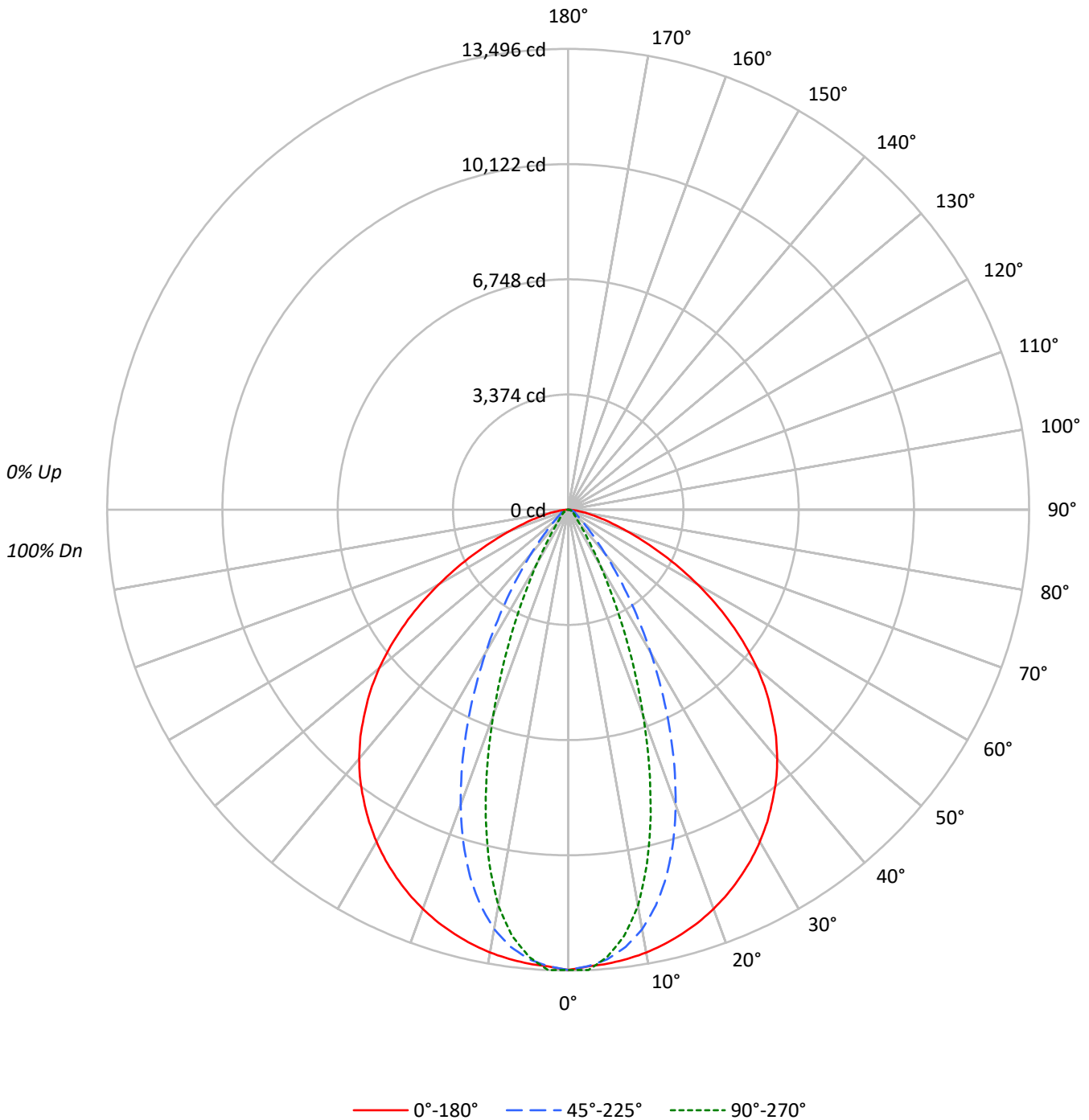
Lumens per Lamp: N/A
Luminaire Lumens: 14755.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	18134	18134	18134
5°	18025	17846	17752
10°	17995	17037	16077
15°	17922	15487	12984
20°	17815	13178	9203
25°	17655	10391	5560
30°	17441	7500	2858
35°	17126	4903	1427
40°	16720	2945	833
45°	16025	1759	623
50°	15115	1150	523
55°	13680	873	456
60°	11756	743	417
65°	9456	678	393
70°	7124	726	391
75°	5240	690	402
80°	3834	687	440
85°	2871	834	570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1241.2	8.4
10°-20°	3087.9	20.9
20°-30°	3420.3	23.2
30°-40°	2740.3	18.6
40°-50°	1956.2	13.3
50°-60°	1256.5	8.5
60°-70°	680.9	4.6
70°-80°	291.0	2.0
80°-90°	80.7	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°	7749.4	52.5
0°-40°	10489.6	71.1
0°-60°	13702.3	92.9
0°-90°	14755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13478	13478	13478	13478	13478	
5°	13346	13395	13213	13171	13143	###
15°	12866	12464	11118	9825	9321	3630
25°	11892	10486	6999	4560	3745	5479
35°	10427	7542	2985	1204	869	6519
45°	8422	4354	924	393	327	6491
55°	5832	1946	372	229	194	5197
65°	2970	799	213	147	124	2974
75°	1008	292	133	92	77	1120
85°	186	77	54	45	37	227
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13477.6	13477.6	13477.6	13477.6	13477.6
2.5°	13388.9	13472.7	13382.5	13438.6	13496.1
5°	13345.6	13395.3	13212.8	13171.0	13143.3
7.5°	13270.3	13256.1	12913.3	12691.1	12583.9
10°	13171.0	13056.0	12470.3	11981.9	11767.5
12.5°	13029.0	12791.9	11870.5	11013.0	10649.5
15°	12866.4	12463.9	11118.0	9825.3	9321.3
17.5°	12671.9	12080.6	10218.6	8551.8	7886.7
20°	12441.9	11617.8	9203.5	7198.8	6427.2
22.5°	12184.9	11083.9	8116.7	5850.1	5022.3
25°	11892.5	10486.2	6999.3	4560.2	3745.3
27.5°	11576.6	9822.5	5888.4	3407.4	2664.1
30°	11225.9	9104.1	4827.1	2456.9	1839.3
32.5°	10843.3	8340.3	3841.1	1727.8	1257.9
35°	10426.6	7541.7	2985.0	1203.9	868.9
37.5°	10000.0	6726.7	2254.6	851.1	623.3
40°	9519.4	5914.7	1676.7	623.3	474.2
42.5°	9003.3	5118.2	1240.9	479.9	384.0
45°	8421.9	4353.6	924.3	393.3	327.3
47.5°	7858.3	3640.9	702.1	335.1	284.7
50°	7220.8	2997.8	549.4	292.5	249.9
52.5°	6544.3	2432.0	445.8	257.7	220.1
55°	5831.6	1946.5	372.0	228.6	194.5
57.5°	5109.7	1541.8	318.0	203.7	173.2
60°	4368.6	1233.0	276.1	182.4	154.8
62.5°	3645.2	986.0	241.4	164.0	138.4
65°	2970.1	799.3	213.0	146.9	123.5
67.5°	2346.1	631.8	198.8	132.0	111.4
70°	1810.9	491.9	184.6	117.8	99.4
72.5°	1372.2	377.7	163.3	105.1	88.0
75°	1008.0	292.5	132.7	92.3	77.4
77.5°	721.2	225.0	107.9	80.2	66.7
80°	494.8	167.5	88.7	68.9	56.8
82.5°	321.6	118.5	71.7	56.8	46.9
85°	186.0	77.4	54.0	44.7	36.9
87.5°	80.2	42.6	36.9	33.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)