

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-LD5-15HE-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-LD5-15HE-N-CLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

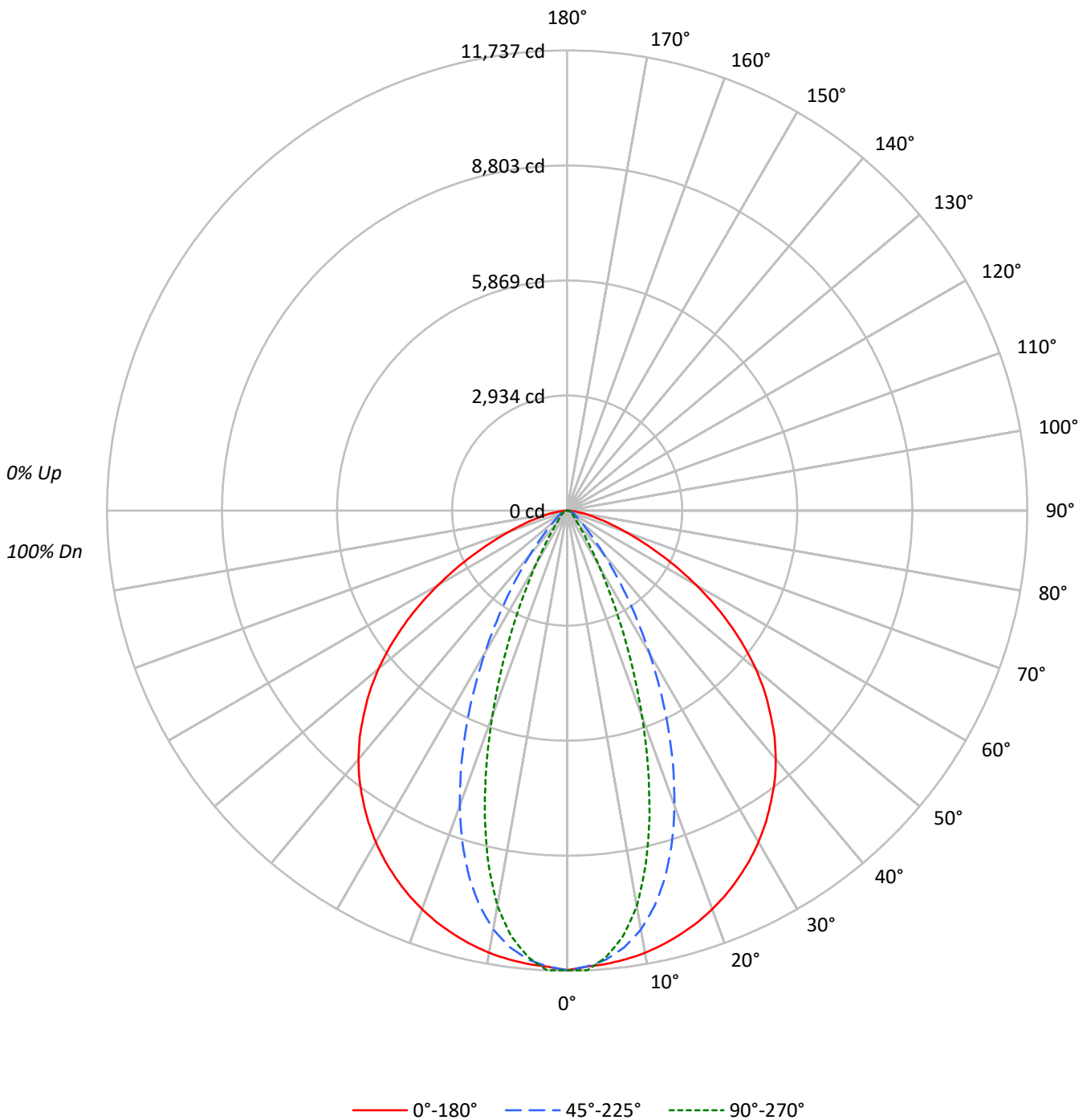
Lumens per Lamp: N/A
Luminaire Lumens: 12832.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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°	15771	15771	15771
5°	15676	15520	15438
10°	15650	14817	13982
15°	15587	13468	11292
20°	15493	11460	8003
25°	15354	9037	4836
30°	15168	6522	2485
35°	14894	4264	1241
40°	14541	2561	724
45°	13937	1529	542
50°	13145	1000	455
55°	11897	759	397
60°	10224	646	362
65°	8223	590	342
70°	6196	631	340
75°	4557	600	350
80°	3334	598	383
85°	2496	724	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.4	8.4
10°-20°	2685.4	20.9
20°-30°	2974.5	23.2
30°-40°	2383.1	18.6
40°-50°	1701.2	13.3
50°-60°	1092.7	8.5
60°-70°	592.2	4.6
70°-80°	253.1	2.0
80°-90°	70.2	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
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0°-30°	6739.4	52.5
0°-40°	9122.5	71.1
0°-60°	11916.5	92.9
0°-90°	12832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11721	11721	11721	11721	11721	
5°	11606	11650	11491	11454	11430	###
15°	11190	10840	9669	8545	8106	3157
25°	10343	9120	6087	3966	3257	4765
35°	9068	6559	2596	1047	756	5670
45°	7324	3786	804	342	285	5645
55°	5072	1693	324	199	169	4520
65°	2583	695	185	128	107	2587
75°	877	254	115	80	67	974
85°	162	67	47	39	32	198
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11721.1	11721.1	11721.1	11721.1	11721.1
2.5°	11643.9	11716.8	11638.4	11687.2	11737.2
5°	11606.3	11649.5	11490.8	11454.4	11430.3
7.5°	11540.8	11528.5	11230.3	11037.1	10943.9
10°	11454.4	11354.4	10845.1	10420.3	10233.9
12.5°	11330.9	11124.7	10323.4	9577.6	9261.6
15°	11189.6	10839.5	9669.0	8544.8	8106.5
17.5°	11020.4	10506.1	8886.8	7437.3	6858.8
20°	10820.4	10103.6	8004.0	6260.6	5589.5
22.5°	10596.9	9639.4	7058.8	5087.6	4367.8
25°	10342.6	9119.6	6087.1	3965.9	3257.2
27.5°	10067.8	8542.3	5121.0	2963.3	2316.9
30°	9762.9	7917.6	4198.0	2136.7	1599.6
32.5°	9430.1	7253.3	3340.5	1502.6	1094.0
35°	9067.7	6558.8	2596.0	1047.0	755.6
37.5°	8696.7	5850.1	1960.7	740.2	542.0
40°	8278.7	5143.8	1458.2	542.0	412.4
42.5°	7829.9	4451.1	1079.1	417.3	334.0
45°	7324.3	3786.2	803.8	342.0	284.6
47.5°	6834.1	3166.4	610.6	291.4	247.6
50°	6279.7	2607.1	477.8	254.4	217.3
52.5°	5691.4	2115.1	387.7	224.1	191.4
55°	5071.6	1692.8	323.5	198.8	169.2
57.5°	4443.7	1340.9	276.6	177.2	150.6
60°	3799.2	1072.3	240.2	158.7	134.6
62.5°	3170.1	857.5	209.9	142.6	120.4
65°	2583.0	695.1	185.2	127.8	107.4
67.5°	2040.4	549.4	172.9	114.8	96.9
70°	1574.9	427.8	160.5	102.5	86.4
72.5°	1193.3	328.4	142.0	91.4	76.6
75°	876.6	254.4	115.4	80.3	67.3
77.5°	627.2	195.7	93.8	69.8	58.0
80°	430.3	145.7	77.2	59.9	49.4
82.5°	279.7	103.1	62.4	49.4	40.7
85°	161.7	67.3	46.9	38.9	32.1
87.5°	69.8	37.0	32.1	29.0	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)