

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-L835-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-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

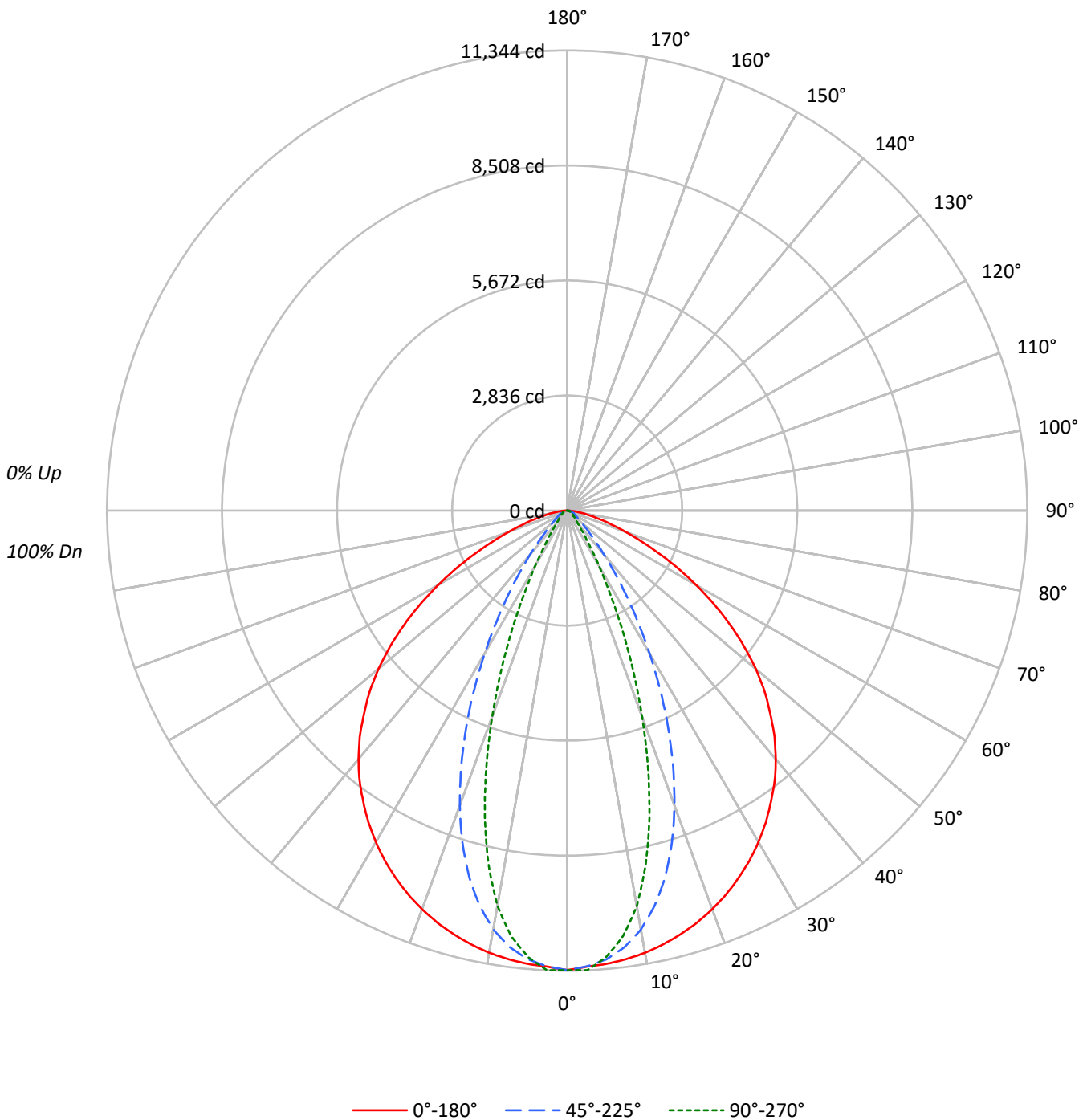
Lumens per Lamp: N/A
Luminaire Lumens: 12402.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	15242	15242	15242
5°	15151	15000	14921
10°	15125	14321	13514
15°	15064	13017	10914
20°	14974	11076	7735
25°	14840	8734	4673
30°	14660	6304	2402
35°	14395	4121	1200
40°	14054	2475	700
45°	13470	1478	523
50°	12704	967	440
55°	11498	734	384
60°	9881	625	350
65°	7948	570	330
70°	5988	610	328
75°	4405	580	338
80°	3223	578	370
85°	2413	699	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1043.3	8.4
10°-20°	2595.5	20.9
20°-30°	2874.9	23.2
30°-40°	2303.3	18.6
40°-50°	1644.2	13.3
50°-60°	1056.1	8.5
60°-70°	572.3	4.6
70°-80°	244.6	2.0
80°-90°	67.8	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°	6513.6	52.5
0°-40°	8816.8	71.1
0°-60°	11517.2	92.9
0°-90°	12402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11328	11328	11328	11328	11328	
5°	11217	11259	11106	11071	11047	###
15°	10815	10476	9345	8258	7835	3051
25°	9996	8814	5883	3833	3148	4605
35°	8764	6339	2509	1012	730	5480
45°	7079	3659	777	331	275	5456
55°	4902	1636	313	192	164	4368
65°	2496	672	179	124	104	2500
75°	847	246	112	78	65	941
85°	156	65	45	38	31	191
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11328.3	11328.3	11328.3	11328.3	11328.3
2.5°	11253.7	11324.2	11248.4	11295.5	11343.8
5°	11217.4	11259.1	11105.8	11070.6	11047.3
7.5°	11154.1	11142.2	10854.0	10667.2	10577.1
10°	11070.6	10973.9	10481.7	10071.2	9891.0
12.5°	10951.2	10751.9	9977.5	9256.7	8951.2
15°	10814.6	10476.3	9345.0	8258.5	7834.8
17.5°	10651.1	10154.1	8589.0	7188.1	6629.0
20°	10457.8	9765.1	7735.8	6050.8	5402.2
22.5°	10241.8	9316.4	6822.3	4917.1	4221.4
25°	9996.0	8814.0	5883.1	3833.0	3148.0
27.5°	9730.5	8256.1	4949.4	2864.0	2239.3
30°	9435.7	7652.3	4057.3	2065.1	1546.0
32.5°	9114.1	7010.2	3228.6	1452.3	1057.3
35°	8763.9	6339.0	2509.0	1011.9	730.3
37.5°	8405.3	5654.0	1895.0	715.4	523.9
40°	8001.3	4971.4	1409.3	523.9	398.6
42.5°	7567.5	4302.0	1043.0	403.3	322.8
45°	7078.9	3659.4	776.9	330.6	275.1
47.5°	6605.1	3060.3	590.1	281.6	239.3
50°	6069.3	2519.7	461.8	245.8	210.0
52.5°	5500.7	2044.2	374.7	216.6	185.0
55°	4901.6	1636.1	312.7	192.1	163.5
57.5°	4294.8	1296.0	267.3	171.2	145.6
60°	3671.9	1036.4	232.1	153.3	130.1
62.5°	3063.9	828.8	202.9	137.8	116.4
65°	2496.5	671.8	179.0	123.5	103.8
67.5°	1972.0	531.0	167.1	111.0	93.7
70°	1522.1	413.5	155.1	99.0	83.5
72.5°	1153.4	317.4	137.2	88.3	74.0
75°	847.3	245.8	111.6	77.6	65.0
77.5°	606.2	189.1	90.7	67.4	56.1
80°	415.9	140.8	74.6	57.9	47.7
82.5°	270.3	99.6	60.3	47.7	39.4
85°	156.3	65.0	45.3	37.6	31.0
87.5°	67.4	35.8	31.0	28.0	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)