

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-LD5-15SE-N-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CLWG-UNV-L835-ED1-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

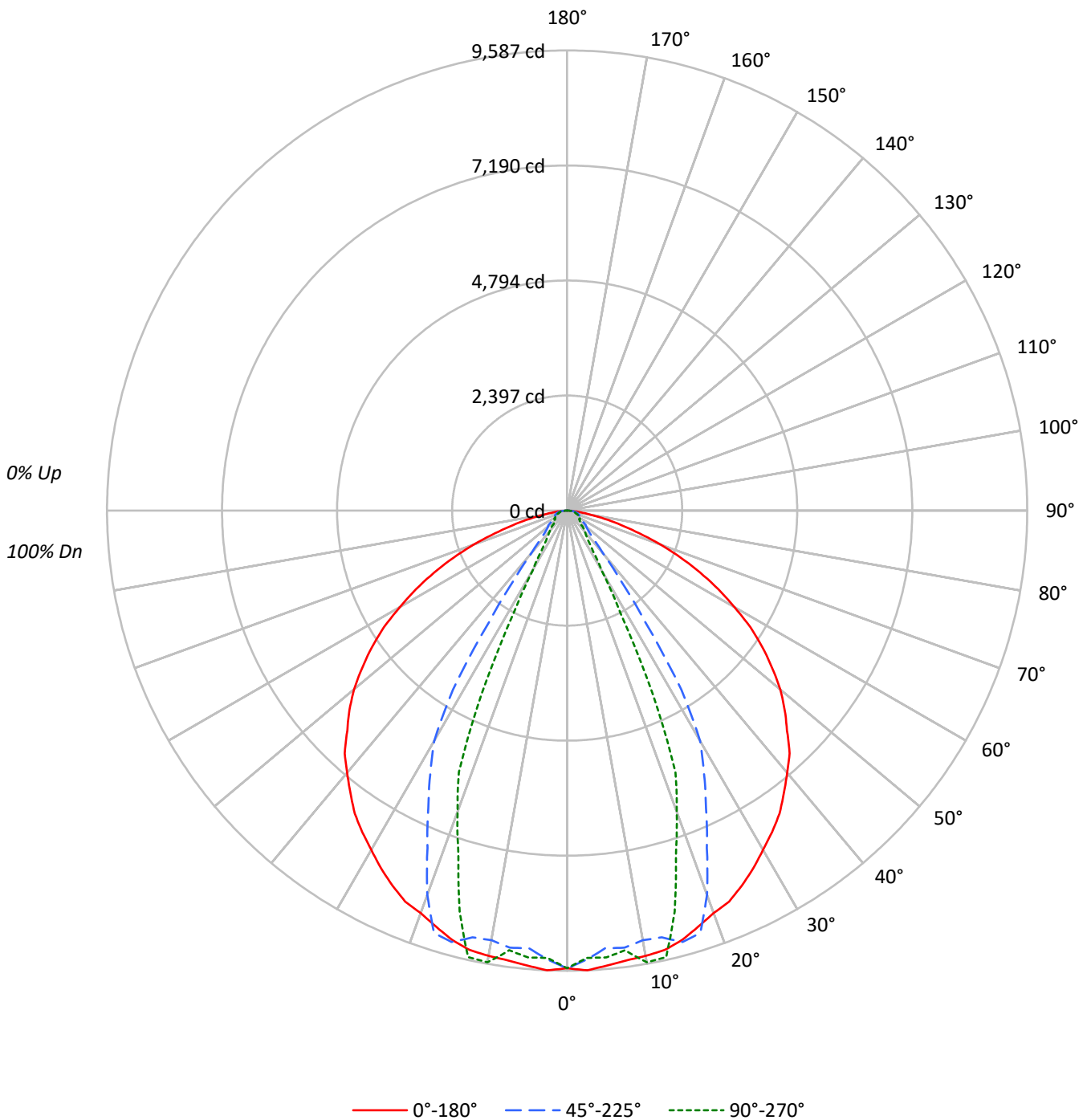
Lumens per Lamp: N/A
Luminaire Lumens: 12818.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	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°	12829	12829	12829
5°	12850	12361	12621
10°	12869	12420	13057
15°	12897	12964	12050
20°	12775	12194	9564
25°	12794	10166	6248
30°	12679	8612	2244
35°	12666	4665	1262
40°	12522	2034	989
45°	12329	1257	775
50°	12136	1095	732
55°	11660	950	716
60°	10818	851	770
65°	9724	961	841
70°	8155	1034	867
75°	6096	1179	939
80°	3828	1369	1071
85°	2549	1717	1567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.7	6.9
10°-20°	2495.5	19.5
20°-30°	3055.8	23.8
30°-40°	2399.7	18.7
40°-50°	1779.5	13.9
50°-60°	1083.3	8.5
60°-70°	648.9	5.1
70°-80°	356.0	2.8
80°-90°	115.5	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
0°-30°	6435.0	50.2
0°-40°	8834.7	68.9
0°-60°	11697.6	91.3
0°-90°	12818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9535	9535	9535	9535	9535	
5°	9514	9255	9152	9253	9344	905
15°	9259	9005	9307	8931	8650	2607
25°	8618	8645	6847	5371	4208	3967
35°	7711	7014	2840	950	768	4812
45°	6479	4652	661	501	407	5010
55°	4970	1282	405	342	305	4423
65°	3054	378	302	284	264	3017
75°	1173	238	227	197	181	1270
85°	165	130	111	102	102	201
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9534.7	9534.7	9534.7	9534.7	9534.7
2.5°	9586.7	9457.6	9358.6	9303.3	9325.8
5°	9514.1	9255.1	9151.7	9252.6	9344.5
7.5°	9451.1	9066.2	9183.2	9192.2	9240.4
10°	9419.0	9048.2	9090.6	9290.5	9557.2
12.5°	9376.6	9090.0	9104.8	9377.2	9527.6
15°	9259.0	9005.2	9307.2	8931.3	8650.5
17.5°	9087.4	8807.3	9222.4	7912.1	7530.4
20°	8922.3	8592.0	8516.2	7047.9	6679.7
22.5°	8815.6	8559.2	7607.6	6280.0	5899.6
25°	8617.7	8644.7	6847.4	5370.7	4208.3
27.5°	8399.9	8443.6	6175.2	3581.8	2411.0
30°	8160.8	8210.9	5542.9	2116.7	1444.5
32.5°	7944.3	7661.5	4426.8	1320.5	1004.4
35°	7711.0	7014.5	2840.2	950.4	768.5
37.5°	7417.4	6334.6	1798.0	751.8	645.2
40°	7129.5	5724.1	1157.9	641.9	562.9
42.5°	6860.2	5221.0	842.4	561.0	508.3
45°	6479.2	4652.3	660.6	500.6	407.4
47.5°	6149.5	3985.3	577.7	423.5	351.5
50°	5798.0	3047.1	523.1	376.6	349.6
52.5°	5381.0	1993.3	483.2	360.5	326.4
55°	4970.4	1282.0	404.8	342.5	305.2
57.5°	4527.0	812.9	357.3	332.2	318.7
60°	4020.0	548.1	316.2	314.9	286.0
62.5°	3550.9	450.5	305.2	302.0	270.5
65°	3054.2	377.8	302.0	284.0	264.1
67.5°	2558.1	323.9	273.1	259.6	242.3
70°	2073.0	296.2	262.8	257.0	220.4
72.5°	1574.3	244.2	233.3	217.8	183.1
75°	1172.7	238.4	226.8	197.3	180.6
77.5°	793.6	219.8	206.3	176.7	163.2
80°	494.1	201.8	176.7	154.9	138.2
82.5°	293.7	168.4	145.2	127.9	117.0
85°	165.1	129.8	111.2	102.2	101.5
87.5°	35.3	46.9	37.3	35.3	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)