

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-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

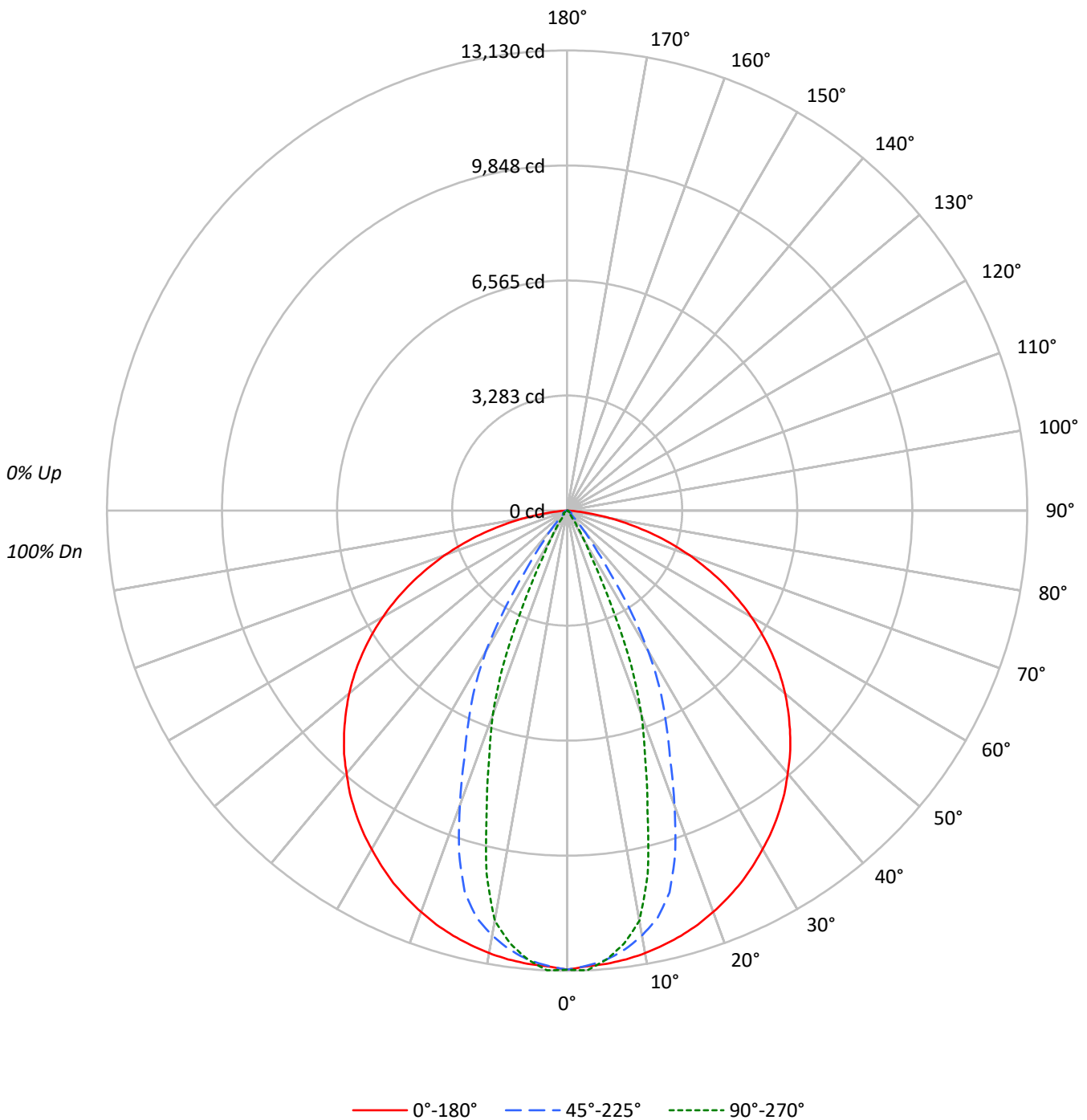
Lumens per Lamp: N/A
Luminaire Lumens: 13922.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17624	17624	17624
5°	17530	17375	17367
10°	17519	16818	16228
15°	17494	15712	12350
20°	17453	12808	8890
25°	17409	9904	4379
30°	17332	7198	1420
35°	17291	3193	365
40°	17200	1297	246
45°	17123	364	262
50°	16990	258	291
55°	16745	307	124
60°	16332	342	75
65°	15660	218	89
70°	14549	194	110
75°	12727	146	152
80°	9517	179	217
85°	4713	232	289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.6	8.7
10°-20°	3039.5	21.8
20°-30°	3292.2	23.6
30°-40°	2438.0	17.5
40°-50°	1756.0	12.6
50°-60°	1087.3	7.8
60°-70°	668.7	4.8
70°-80°	352.5	2.5
80°-90°	72.1	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°	7547.3	54.2
0°-40°	9985.3	71.7
0°-60°	12828.7	92.1
0°-90°	13922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13098	13098	13098	13098	13098	
5°	12979	13027	12864	12874	12859	###
15°	12559	12267	11280	9592	8866	3545
25°	11726	10741	6671	4197	2950	5403
35°	10527	7421	1944	457	222	6586
45°	8999	4181	191	138	138	6940
55°	7138	861	131	118	53	6372
65°	4919	91	68	44	28	4853
75°	2448	21	28	37	29	2586
85°	305	8	15	22	19	461
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13098.5	13098.5	13098.5	13098.5	13098.5
2.5°	13014.3	13097.2	12999.4	13072.3	13130.2
5°	12978.8	13026.8	12864.2	12873.5	12858.6
7.5°	12916.5	12905.3	12631.7	12512.1	12459.8
10°	12822.4	12748.3	12309.6	12059.7	11877.8
12.5°	12700.9	12535.2	11907.7	11113.2	10619.7
15°	12558.8	12267.2	11279.6	9592.2	8866.3
17.5°	12389.3	11976.2	10252.7	8039.4	7391.4
20°	12189.3	11651.6	8945.4	6839.9	6208.7
22.5°	11966.3	11256.5	7675.5	5684.7	4784.3
25°	11726.4	10741.2	6671.0	4196.7	2949.8
27.5°	11449.1	10078.8	5728.9	2471.9	1505.4
30°	11155.6	9281.3	4632.8	1329.7	914.1
32.5°	10859.6	8377.1	3278.2	830.6	518.4
35°	10526.9	7421.3	1944.1	457.4	222.5
37.5°	10179.8	6545.2	1149.0	208.1	142.7
40°	9792.8	5744.5	738.4	138.3	140.2
42.5°	9419.0	4998.0	415.6	136.5	139.0
45°	8999.0	4181.1	191.3	138.3	137.7
47.5°	8564.7	3334.3	124.0	139.6	139.6
50°	8116.7	2384.0	123.4	142.7	139.0
52.5°	7643.7	1487.4	128.4	142.1	114.0
55°	7138.4	861.1	130.9	118.4	53.0
57.5°	6615.0	507.8	132.1	67.9	29.9
60°	6069.1	281.0	127.1	50.5	28.0
62.5°	5506.4	134.0	100.3	47.4	27.4
65°	4918.9	91.0	68.5	43.6	28.0
67.5°	4308.8	70.4	54.2	41.1	28.7
70°	3698.2	52.3	49.2	41.1	28.0
72.5°	3077.6	35.5	41.1	41.7	28.0
75°	2448.2	21.2	28.0	36.8	29.3
77.5°	1824.5	13.1	21.8	38.0	35.5
80°	1228.2	11.2	23.1	35.5	28.0
82.5°	720.9	10.0	22.4	27.4	22.4
85°	305.3	8.1	15.0	22.4	18.7
87.5°	57.3	6.9	11.8	18.1	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)