

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-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-LD5-15SE-N-CLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

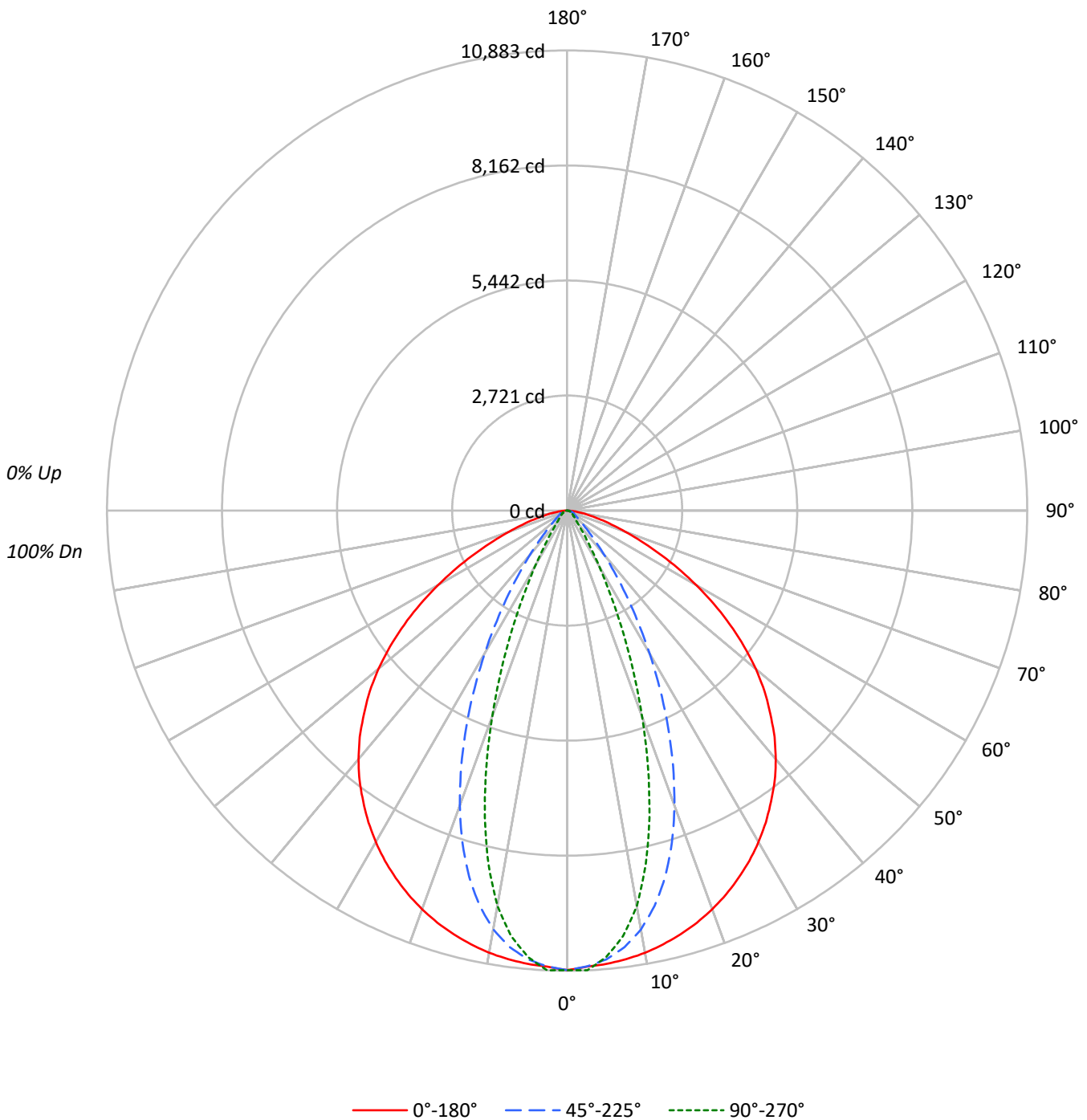
Lumens per Lamp: N/A
Luminaire Lumens: 11898.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	14623	14623	14623
5°	14535	14390	14315
10°	14510	13739	12964
15°	14452	12488	10470
20°	14365	10626	7421
25°	14237	8379	4484
30°	14064	6048	2304
35°	13810	3954	1151
40°	13483	2375	672
45°	12922	1418	502
50°	12188	928	422
55°	11031	704	368
60°	9480	599	336
65°	7625	547	317
70°	5744	585	315
75°	4225	556	324
80°	3092	555	355
85°	2316	672	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.9	8.4
10°-20°	2490.0	20.9
20°-30°	2758.0	23.2
30°-40°	2209.7	18.6
40°-50°	1577.4	13.3
50°-60°	1013.2	8.5
60°-70°	549.1	4.6
70°-80°	234.7	2.0
80°-90°	65.1	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°	6248.9	52.5
0°-40°	8458.5	71.1
0°-60°	11049.1	92.9
0°-90°	11898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10868	10868	10868	10868	10868	
5°	10762	10802	10654	10621	10598	###
15°	10375	10050	8965	7923	7516	2927
25°	9590	8456	5644	3677	3020	4418
35°	8408	6081	2407	971	701	5257
45°	6791	3511	745	317	264	5235
55°	4702	1570	300	184	157	4191
65°	2395	644	172	118	100	2398
75°	813	236	107	74	62	903
85°	150	62	44	36	30	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10868.0	10868.0	10868.0	10868.0	10868.0
2.5°	10796.4	10864.0	10791.3	10836.5	10882.8
5°	10761.5	10801.6	10654.5	10620.7	10598.4
7.5°	10700.8	10689.4	10412.9	10233.7	10147.3
10°	10620.7	10527.9	10055.7	9661.9	9489.0
12.5°	10506.2	10315.0	9572.0	8880.5	8587.4
15°	10375.1	10050.5	8965.2	7922.9	7516.4
17.5°	10218.3	9741.4	8240.0	6895.9	6359.6
20°	10032.8	9368.2	7421.4	5804.9	5182.7
22.5°	9825.6	8937.8	6545.0	4717.3	4049.9
25°	9589.7	8455.8	5644.1	3677.2	3020.1
27.5°	9335.0	7920.6	4748.2	2747.6	2148.3
30°	9052.2	7341.3	3892.5	1981.1	1483.1
32.5°	8743.7	6725.4	3097.4	1393.3	1014.3
35°	8407.7	6081.4	2407.0	970.8	700.6
37.5°	8063.7	5424.3	1818.0	686.3	502.6
40°	7676.2	4769.4	1352.1	502.6	382.4
42.5°	7260.0	4127.1	1000.6	387.0	309.7
45°	6791.2	3510.7	745.3	317.1	263.9
47.5°	6336.7	2935.9	566.1	270.2	229.5
50°	5822.7	2417.3	443.1	235.8	201.5
52.5°	5277.1	1961.1	359.5	207.8	177.5
55°	4702.4	1569.6	299.9	184.3	156.8
57.5°	4120.3	1243.3	256.4	164.3	139.7
60°	3522.7	994.3	222.7	147.1	124.8
62.5°	2939.4	795.1	194.6	132.2	111.6
65°	2395.0	644.5	171.7	118.5	99.6
67.5°	1891.8	509.5	160.3	106.5	89.9
70°	1460.2	396.7	148.8	95.0	80.1
72.5°	1106.5	304.5	131.7	84.7	71.0
75°	812.8	235.8	107.0	74.4	62.4
77.5°	581.6	181.5	87.0	64.7	53.8
80°	399.0	135.1	71.6	55.5	45.8
82.5°	259.3	95.6	57.8	45.8	37.8
85°	150.0	62.4	43.5	36.1	29.8
87.5°	64.7	34.3	29.8	26.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)