

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-LD5-18SE-N-CL-UNV-L850-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

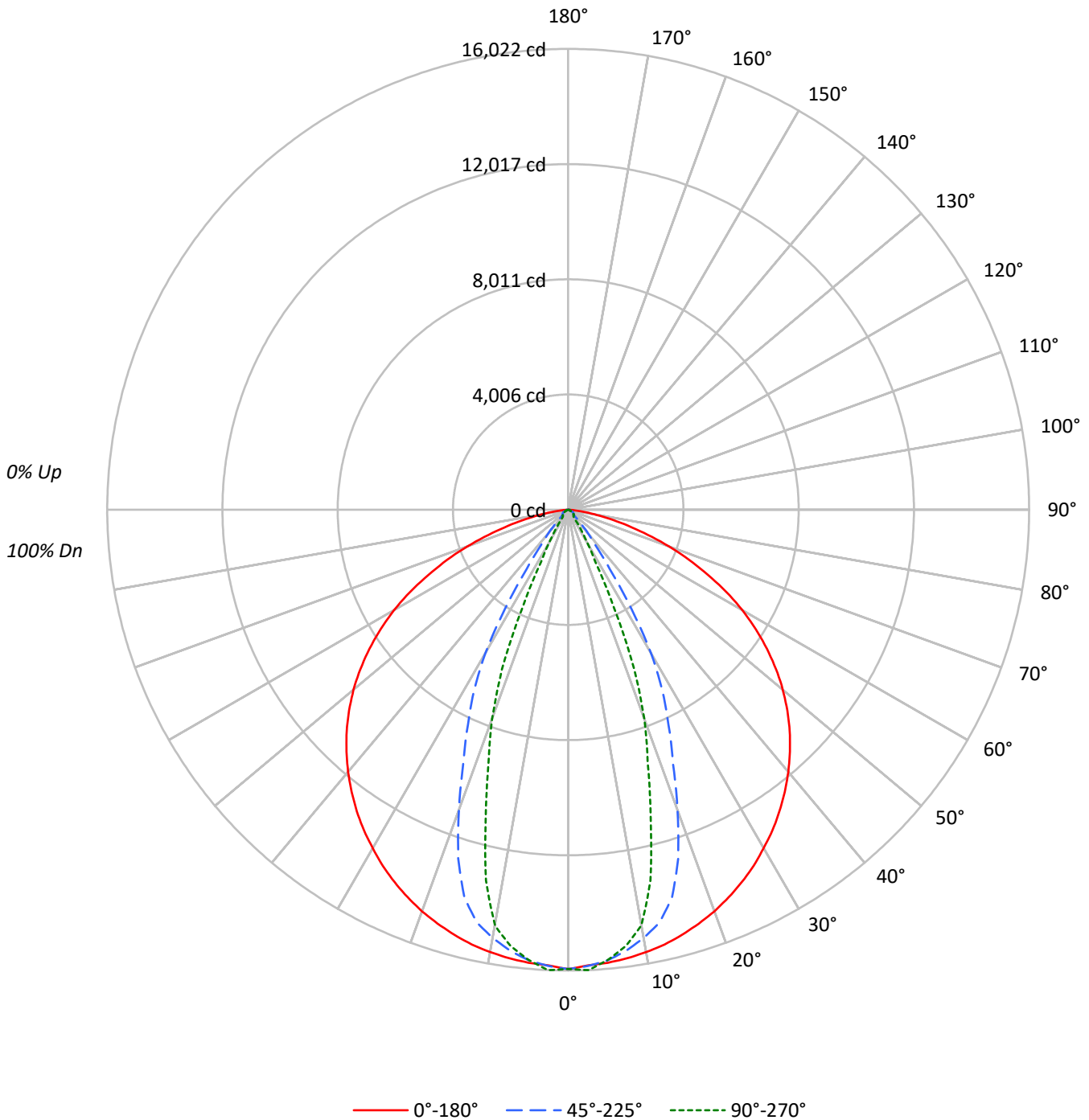
Lumens per Lamp: N/A
Luminaire Lumens: 17079.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21487	21487	21487
5°	21355	21243	21228
10°	21340	20656	20046
15°	21316	19424	15414
20°	21274	15895	11056
25°	21207	12247	5618
30°	21107	8938	2044
35°	21032	4105	711
40°	20902	1863	491
45°	20716	695	498
50°	20386	505	524
55°	19783	531	399
60°	18799	567	352
65°	17049	432	286
70°	14617	312	264
75°	11173	276	251
80°	6991	260	272
85°	2208	303	366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1486.7	8.7
10°-20°	3745.2	21.9
20°-30°	4078.7	23.9
30°-40°	3051.1	17.9
40°-50°	2193.8	12.8
50°-60°	1347.3	7.9
60°-70°	775.3	4.5
70°-80°	346.0	2.0
80°-90°	54.9	0.3
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°	9310.6	54.5
0°-40°	12361.7	72.4
0°-60°	15902.8	93.1
0°-90°	17079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15969	15969	15969	15969	15969	
5°	15811	15885	15728	15743	15717	###
15°	15302	15009	13944	11976	11065	4320
25°	14285	13260	8249	5293	3784	6585
35°	12804	9184	2499	735	433	8010
45°	10887	5160	365	270	262	8387
55°	8433	1072	226	219	170	7519
65°	5355	118	136	113	90	5301
75°	2149	71	53	55	48	2332
85°	143	14	20	25	24	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15969.3	15969.3	15969.3	15969.3	15969.3
2.5°	15858.2	15962.0	15874.5	15953.0	16022.4
5°	15810.8	15885.1	15728.2	15743.0	15716.8
7.5°	15729.1	15747.0	15463.5	15354.0	15300.9
10°	15619.6	15571.4	15118.6	14858.0	14672.5
12.5°	15481.5	15322.1	14689.6	13758.8	13204.0
15°	15302.5	15009.1	13944.3	11975.8	11065.4
17.5°	15089.2	14682.3	12710.4	9981.0	9193.3
20°	14858.0	14321.1	11101.4	8486.4	7721.5
22.5°	14585.0	13859.4	9514.4	7058.0	6007.9
25°	14285.1	13260.4	8249.4	5292.9	3784.4
27.5°	13961.5	12470.2	7078.4	3245.8	2046.2
30°	13585.6	11508.3	5752.9	1821.5	1315.7
32.5°	13218.7	10387.2	4109.6	1213.5	840.9
35°	12804.4	9183.5	2498.9	734.6	433.1
37.5°	12365.6	8089.3	1564.1	399.6	299.1
40°	11900.6	7051.4	1060.7	283.6	279.5
42.5°	11403.7	6112.5	664.4	269.7	278.7
45°	10887.3	5159.7	365.3	270.5	261.5
47.5°	10326.7	4125.1	255.0	255.8	255.0
50°	9739.1	2959.0	241.1	252.5	250.1
52.5°	9105.8	1837.0	241.9	246.8	221.5
55°	8433.3	1072.1	226.4	219.0	170.0
57.5°	7726.4	668.5	221.5	180.6	152.8
60°	6986.1	353.0	210.8	162.6	130.7
62.5°	6197.5	174.1	169.2	138.9	107.1
65°	5355.0	117.7	135.7	112.8	89.9
67.5°	4541.1	106.2	102.1	92.3	78.4
70°	3715.7	97.2	79.3	80.9	67.0
72.5°	2905.9	88.3	63.7	69.5	56.4
75°	2149.2	71.1	53.1	54.8	48.2
77.5°	1495.4	55.6	41.7	46.6	44.9
80°	902.2	35.1	33.5	38.4	35.1
82.5°	437.2	22.9	26.1	30.2	27.8
85°	143.0	13.9	19.6	25.3	23.7
87.5°	18.0	8.2	16.3	22.1	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)