

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-LD5-18HE-N-CL-UNV-L850-ED2-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-LD5-18HE-N-CL-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

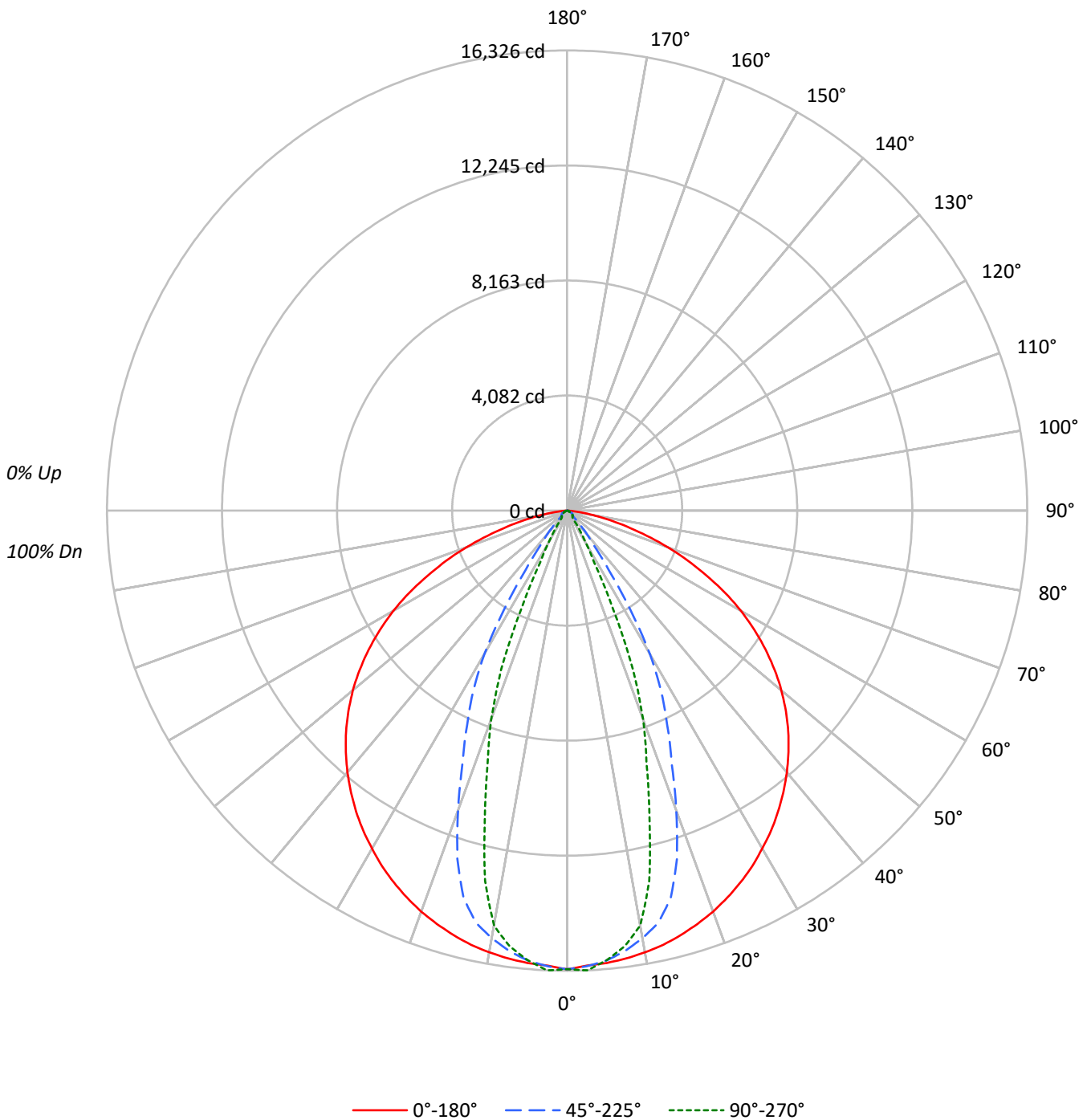
Lumens per Lamp: N/A
Luminaire Lumens: 17403.0 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21894	21894	21894
5°	21760	21646	21630
10°	21745	21048	20426
15°	21720	19792	15706
20°	21678	16197	11266
25°	21610	12479	5725
30°	21507	9108	2083
35°	21431	4182	725
40°	21299	1898	500
45°	21109	708	507
50°	20773	514	533
55°	20158	541	406
60°	19156	578	358
65°	17372	440	292
70°	14895	318	269
75°	11385	281	255
80°	7123	264	277
85°	2249	309	372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1514.9	8.7
10°-20°	3816.3	21.9
20°-30°	4156.1	23.9
30°-40°	3109.0	17.9
40°-50°	2235.4	12.8
50°-60°	1372.9	7.9
60°-70°	790.0	4.5
70°-80°	352.6	2.0
80°-90°	55.9	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°	9487.3	54.5
0°-40°	12596.2	72.4
0°-60°	16204.5	93.1
0°-90°	17403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16272	16272	16272	16272	16272	
5°	16111	16186	16027	16042	16015	###
15°	15593	15294	14209	12203	11275	4402
25°	14556	13512	8406	5393	3856	6710
35°	13047	9358	2546	749	441	8161
45°	11094	5258	372	276	266	8546
55°	8593	1092	231	223	173	7662
65°	5457	120	138	115	92	5401
75°	2190	72	54	56	49	2376
85°	146	14	20	26	24	290
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16272.3	16272.3	16272.3	16272.3	16272.3
2.5°	16159.0	16264.8	16175.7	16255.6	16326.4
5°	16110.7	16186.5	16026.6	16041.6	16015.0
7.5°	16027.5	16045.8	15756.8	15645.3	15591.1
10°	15915.9	15866.7	15405.4	15139.8	14950.8
12.5°	15775.2	15612.8	14968.3	14019.9	13454.5
15°	15592.8	15293.9	14208.9	12203.0	11275.3
17.5°	15375.5	14960.8	12951.5	10170.4	9367.7
20°	15139.8	14592.7	11312.0	8647.4	7868.0
22.5°	14861.7	14122.3	9694.9	7191.9	6121.9
25°	14556.1	13511.9	8405.9	5393.3	3856.1
27.5°	14226.4	12706.7	7212.7	3307.4	2085.0
30°	13843.3	11726.7	5862.1	1856.0	1340.6
32.5°	13469.5	10584.2	4187.6	1236.5	856.8
35°	13047.3	9357.7	2546.3	748.6	441.3
37.5°	12600.1	8242.7	1593.8	407.2	304.8
40°	12126.3	7185.2	1080.8	288.9	284.8
42.5°	11620.1	6228.5	677.0	274.8	283.9
45°	11093.8	5257.6	372.2	275.6	266.5
47.5°	10522.6	4203.4	259.8	260.6	259.8
50°	9923.9	3015.1	245.6	257.3	254.8
52.5°	9278.6	1871.9	246.5	251.5	225.7
55°	8593.3	1092.5	230.7	223.2	173.2
57.5°	7873.0	681.1	225.7	184.0	155.7
60°	7118.6	359.7	214.8	165.7	133.2
62.5°	6315.1	177.4	172.4	141.6	109.1
65°	5456.6	119.9	138.2	114.9	91.6
67.5°	4627.2	108.2	104.1	94.1	79.9
70°	3786.2	99.1	80.8	82.4	68.3
72.5°	2961.0	89.9	64.9	70.8	57.5
75°	2190.0	72.4	54.1	55.8	49.1
77.5°	1523.8	56.6	42.5	47.5	45.8
80°	919.3	35.8	34.1	39.1	35.8
82.5°	445.5	23.3	26.6	30.8	28.3
85°	145.7	14.2	20.0	25.8	24.1
87.5°	18.3	8.3	16.7	22.5	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)