

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-UNV-L835-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 (P23767)
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-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

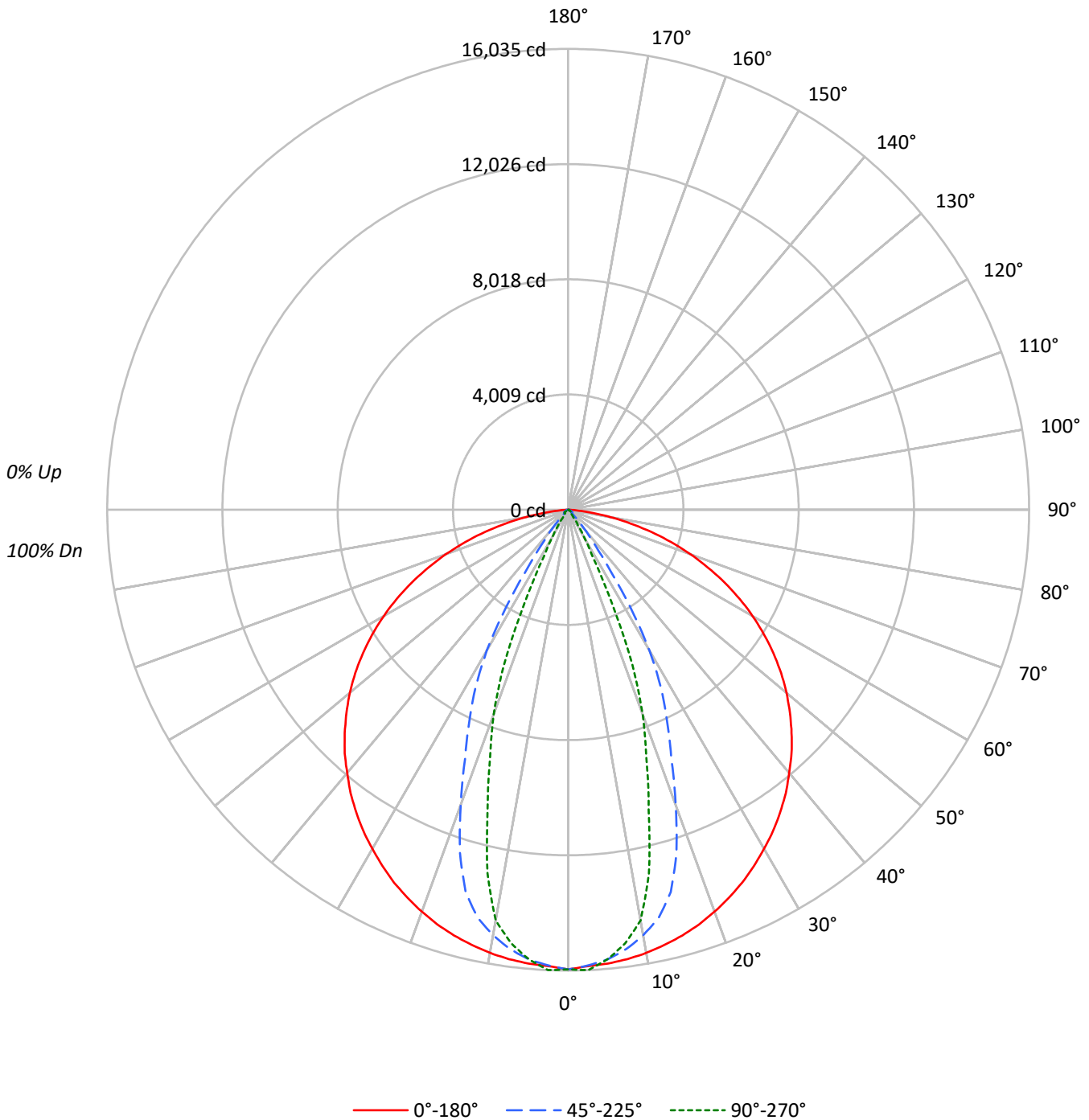
Lumens per Lamp: N/A
Luminaire Lumens: 17002.0 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21523	21523	21523
5°	21408	21219	21209
10°	21394	20539	19818
15°	21364	19188	15083
20°	21314	15642	10857
25°	21260	12095	5348
30°	21166	8790	1734
35°	21116	3900	446
40°	21005	1584	301
45°	20912	444	320
50°	20749	315	355
55°	20450	375	152
60°	19945	418	92
65°	19125	266	109
70°	17767	236	135
75°	15543	178	186
80°	11622	219	265
85°	5757	283	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1484.5	8.7
10°-20°	3711.9	21.8
20°-30°	4020.6	23.6
30°-40°	2977.4	17.5
40°-50°	2144.5	12.6
50°-60°	1327.9	7.8
60°-70°	816.6	4.8
70°-80°	430.5	2.5
80°-90°	88.1	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°	9217.0	54.2
0°-40°	12194.4	71.7
0°-60°	15666.8	92.1
0°-90°	17002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15996	15996	15996	15996	15996	
5°	15850	15909	15710	15722	15703	###
15°	15337	14981	13775	11714	10828	4330
25°	14321	13118	8147	5125	3602	6599
35°	12856	9063	2374	558	272	8043
45°	10990	5106	234	169	168	8475
55°	8718	1052	160	145	65	7782
65°	6007	111	84	53	34	5927
75°	2990	26	34	45	36	3158
85°	373	10	18	27	23	563
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15996.3	15996.3	15996.3	15996.3	15996.3
2.5°	15893.5	15994.7	15875.3	15964.3	16035.1
5°	15850.1	15908.7	15710.1	15721.5	15703.3
7.5°	15774.1	15760.4	15426.3	15280.2	15216.3
10°	15659.1	15568.6	15032.9	14727.7	14505.5
12.5°	15510.8	15308.3	14542.0	13571.8	12969.1
15°	15337.3	14981.1	13775.0	11714.3	10827.8
17.5°	15130.3	14625.8	12520.9	9818.0	9026.6
20°	14886.0	14229.3	10924.4	8353.1	7582.3
22.5°	14613.6	13746.8	9373.6	6942.3	5842.7
25°	14320.6	13117.5	8146.9	5125.1	3602.4
27.5°	13982.0	12308.6	6996.3	3018.7	1838.5
30°	13623.6	11334.6	5657.8	1623.9	1116.3
32.5°	13262.1	10230.4	4003.4	1014.4	633.1
35°	12855.7	9063.1	2374.2	558.5	271.7
37.5°	12431.9	7993.2	1403.2	254.2	174.3
40°	11959.3	7015.3	901.7	168.9	171.2
42.5°	11502.8	6103.7	507.6	166.7	169.7
45°	10989.9	5106.1	233.6	168.9	168.2
47.5°	10459.5	4071.9	151.4	170.5	170.5
50°	9912.3	2911.5	150.7	174.3	169.7
52.5°	9334.8	1816.4	156.8	173.5	139.3
55°	8717.6	1051.7	159.8	144.6	64.7
57.5°	8078.4	620.2	161.3	82.9	36.5
60°	7411.8	343.2	155.2	61.6	34.2
62.5°	6724.7	163.6	122.5	57.8	33.5
65°	6007.1	111.1	83.7	53.3	34.2
67.5°	5262.1	86.0	66.2	50.2	35.0
70°	4516.3	63.9	60.1	50.2	34.2
72.5°	3758.4	43.4	50.2	51.0	34.2
75°	2989.8	25.9	34.2	44.9	35.8
77.5°	2228.1	16.0	26.6	46.4	43.4
80°	1499.9	13.7	28.2	43.4	34.2
82.5°	880.4	12.2	27.4	33.5	27.4
85°	372.9	9.9	18.3	27.4	22.8
87.5°	70.0	8.4	14.5	22.1	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)