

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-W-CL-UNV-L750-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

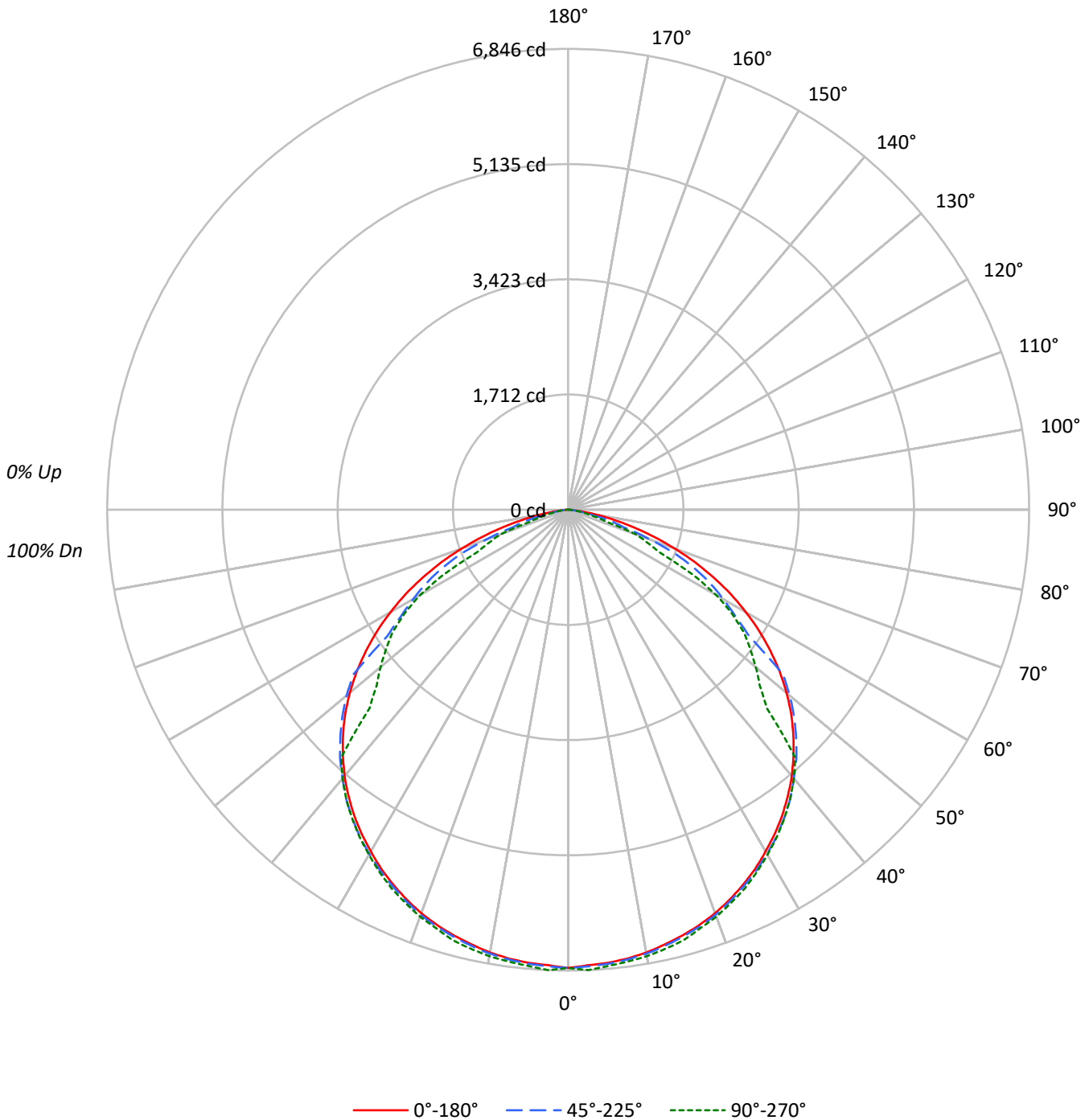
Lumens per Lamp: N/A
Luminaire Lumens: 18401.0 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9158	9158	9158
5°	9125	9145	9190
10°	9124	9150	9203
15°	9123	9151	9225
20°	9135	9169	9212
25°	9124	9159	9214
30°	9107	9174	9194
35°	9103	9186	9192
40°	9074	9154	9154
45°	8996	9105	7934
50°	8858	8991	7612
55°	8606	7697	7477
60°	8202	7154	6831
65°	7585	6641	4731
70°	6605	5168	4216
75°	5217	3468	2266
80°	3358	1657	1413
85°	1382	1011	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.7	3.5
10°-20°	1861.0	10.1
20°-30°	2853.2	15.5
30°-40°	3497.0	19.0
40°-50°	3595.2	19.5
50°-60°	3068.3	16.7
60°-70°	2028.5	11.0
70°-80°	751.6	4.1
80°-90°	100.5	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°	5359.8	29.1
0°-40°	8856.9	48.1
0°-60°	15520.4	84.3
0°-90°	18401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6806	6806	6806	6806	6806	
5°	6756	6803	6771	6797	6804	643
15°	6550	6589	6569	6619	6622	1850
25°	6146	6178	6169	6225	6206	2834
35°	5542	5580	5592	5627	5596	3466
45°	4728	4775	4785	4778	4169	3644
55°	3669	3736	3281	3186	3187	3274
65°	2383	2402	2086	1716	1486	2349
75°	1004	879	667	448	436	1077
85°	90	64	66	71	72	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6806.5	6806.5	6806.5	6806.5	6806.5
2.5°	6773.3	6815.6	6790.7	6822.2	6846.2
5°	6755.9	6803.1	6770.8	6797.3	6804.0
7.5°	6726.1	6770.0	6740.2	6775.0	6770.0
10°	6678.0	6717.8	6697.1	6733.5	6736.0
12.5°	6616.7	6656.5	6637.4	6682.1	6681.3
15°	6549.6	6589.3	6569.4	6619.2	6622.5
17.5°	6470.8	6507.3	6492.4	6537.9	6519.7
20°	6379.7	6411.2	6403.7	6446.8	6433.5
22.5°	6267.8	6300.1	6292.6	6342.4	6322.5
25°	6146.0	6178.3	6169.2	6224.7	6206.5
27.5°	6014.2	6044.8	6044.0	6096.2	6068.1
30°	5861.7	5902.3	5904.8	5951.2	5918.0
32.5°	5710.9	5749.0	5759.8	5793.7	5765.6
35°	5541.8	5579.9	5592.4	5627.2	5596.5
37.5°	5359.5	5391.8	5414.2	5439.9	5415.8
40°	5166.4	5195.4	5212.0	5243.5	5212.0
42.5°	4950.9	4992.3	5015.5	5037.9	4986.5
45°	4728.0	4775.2	4785.2	4777.7	4169.4
47.5°	4491.8	4543.2	4549.0	3967.2	3855.3
50°	4231.6	4296.2	4295.4	3666.4	3636.5
52.5°	3960.6	4022.7	4020.2	3431.0	3411.1
55°	3668.8	3736.0	3281.0	3185.7	3187.3
57.5°	3371.3	3419.4	2943.7	2947.8	2893.1
60°	3048.1	3093.7	2658.6	2632.9	2538.4
62.5°	2724.1	2743.1	2382.6	2257.5	2077.7
65°	2382.6	2402.5	2085.9	1715.5	1485.9
67.5°	2032.1	2052.0	1731.2	1276.3	1258.9
70°	1679.0	1516.6	1313.6	1063.3	1071.6
72.5°	1331.0	1165.2	858.6	823.8	595.0
75°	1003.6	879.3	667.1	448.3	435.9
77.5°	698.6	605.8	357.2	305.8	285.9
80°	433.4	304.1	213.8	189.8	182.3
82.5°	219.6	174.9	116.0	116.0	116.0
85°	89.5	63.8	65.5	71.3	72.1
87.5°	19.1	25.7	31.5	32.3	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)