

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-AI-UNV-L740-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 (P23765)
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-AI-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

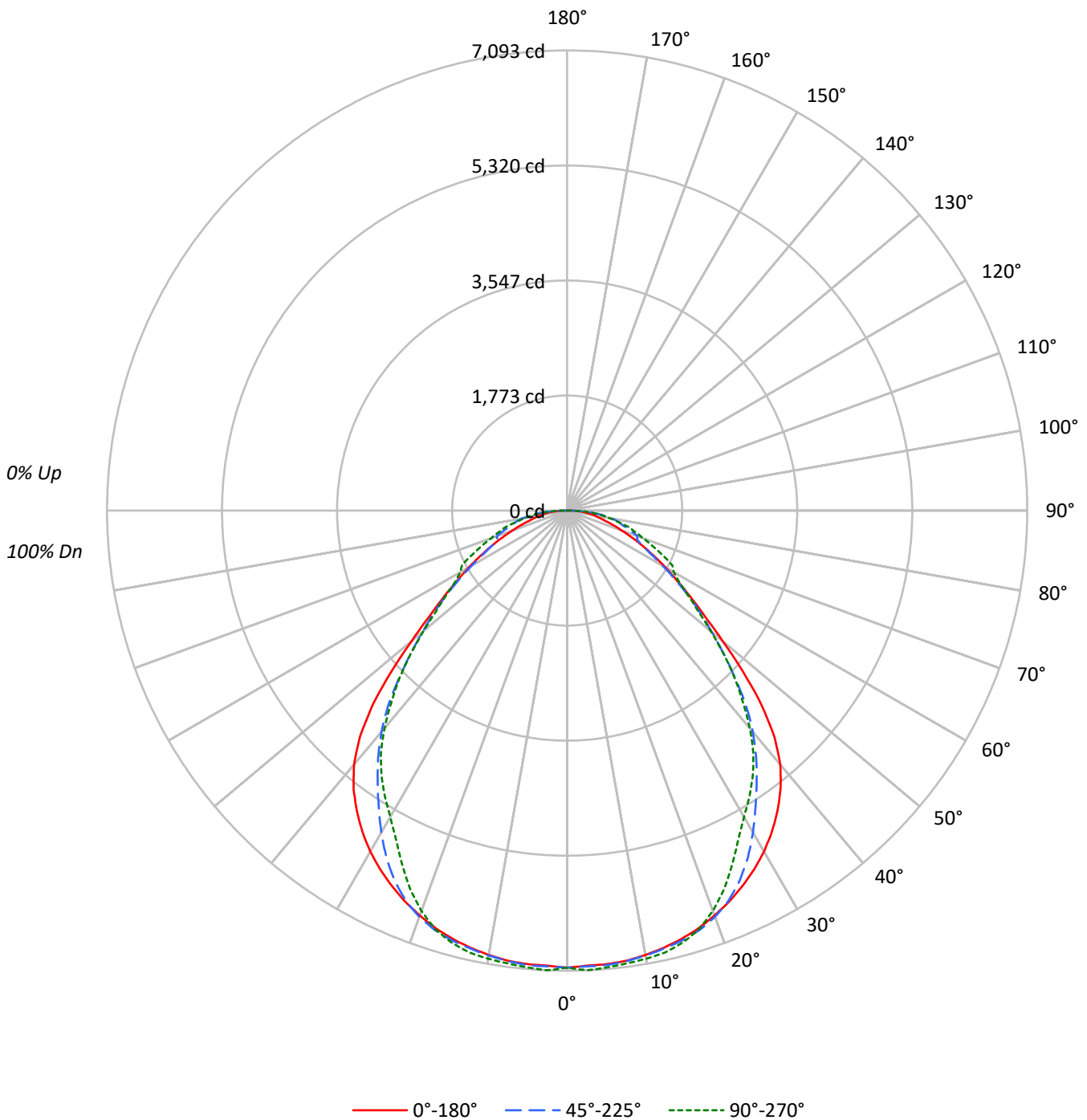
Lumens per Lamp: N/A
Luminaire Lumens: 16308.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9480	9480	9480
5°	9479	9500	9546
10°	9503	9515	9584
15°	9517	9553	9600
20°	9508	9543	9402
25°	9484	9342	8935
30°	9428	8901	8467
35°	9286	8366	8192
40°	8975	7822	7693
45°	8067	6985	6959
50°	6543	6084	6042
55°	5433	5332	5330
60°	4704	4567	5105
65°	4077	4051	5146
70°	3515	4544	4906
75°	3152	4658	5114
80°	3276	5484	5131
85°	3719	6319	5863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.8	4.1
10°-20°	1937.4	11.9
20°-30°	2877.5	17.6
30°-40°	3266.7	20.0
40°-50°	2920.3	17.9
50°-60°	2019.1	12.4
60°-70°	1332.3	8.2
70°-80°	898.8	5.5
80°-90°	385.0	2.4
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°	5485.7	33.6
0°-40°	8752.4	53.7
0°-60°	13691.8	84.0
0°-90°	16308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7046	7046	7046	7046	7046	
5°	7018	7062	7034	7062	7068	668
15°	6832	6865	6858	6896	6892	1929
25°	6388	6449	6292	6105	6019	2944
35°	5653	5534	5093	5019	4987	3525
45°	4240	3881	3671	3699	3657	3224
55°	2316	2114	2273	2241	2272	2104
65°	1280	1137	1272	1488	1616	1278
75°	606	763	896	957	984	662
85°	241	335	409	412	380	251
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7045.6	7045.6	7045.6	7045.6	7045.6
2.5°	7021.6	7065.5	7032.8	7063.1	7092.6
5°	7018.4	7061.5	7033.6	7062.3	7067.9
7.5°	6998.5	7038.4	7005.7	7033.6	7040.0
10°	6955.4	7002.5	6964.2	7007.3	7015.2
12.5°	6899.6	6947.4	6913.9	6973.0	6976.1
15°	6832.5	6865.3	6858.1	6896.4	6891.6
17.5°	6748.0	6785.5	6779.9	6789.5	6767.1
20°	6640.3	6682.6	6665.0	6621.1	6566.1
22.5°	6524.6	6575.6	6506.2	6395.3	6317.9
25°	6388.2	6448.8	6292.4	6104.9	6018.8
27.5°	6237.4	6291.6	6031.5	5801.8	5712.4
30°	6068.2	6091.4	5729.2	5510.6	5449.9
32.5°	5872.8	5839.3	5406.0	5261.6	5226.5
35°	5653.4	5534.5	5093.3	5019.1	4987.2
37.5°	5406.0	5188.2	4784.5	4750.2	4716.7
40°	5110.0	4788.5	4453.4	4431.1	4380.0
42.5°	4727.9	4353.7	4085.6	4059.3	4013.8
45°	4239.6	3880.6	3670.8	3698.7	3657.2
47.5°	3678.0	3405.9	3272.7	3349.3	3272.7
50°	3125.9	2943.2	2906.5	2975.9	2886.5
52.5°	2673.5	2509.1	2584.9	2596.9	2543.5
55°	2316.1	2114.2	2273.0	2241.1	2272.2
57.5°	2004.9	1779.1	1974.6	1937.9	2044.8
60°	1748.0	1494.3	1697.0	1689.0	1897.2
62.5°	1495.9	1293.3	1456.0	1573.3	1829.4
65°	1280.5	1136.9	1272.5	1487.9	1616.4
67.5°	1073.9	1019.6	1164.0	1283.7	1424.1
70°	893.6	921.5	1155.2	1132.9	1247.0
72.5°	742.0	836.9	1019.6	1023.6	1104.2
75°	606.3	762.7	896.0	957.4	983.7
77.5°	504.2	691.7	809.0	830.5	805.0
80°	422.8	609.5	707.7	698.1	662.2
82.5°	341.5	461.9	557.7	566.5	524.2
85°	240.9	335.1	409.3	411.7	379.8
87.5°	129.2	206.6	248.1	255.3	236.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)