

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-CLI-UNV-L840-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 (P23766)
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-CLI-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

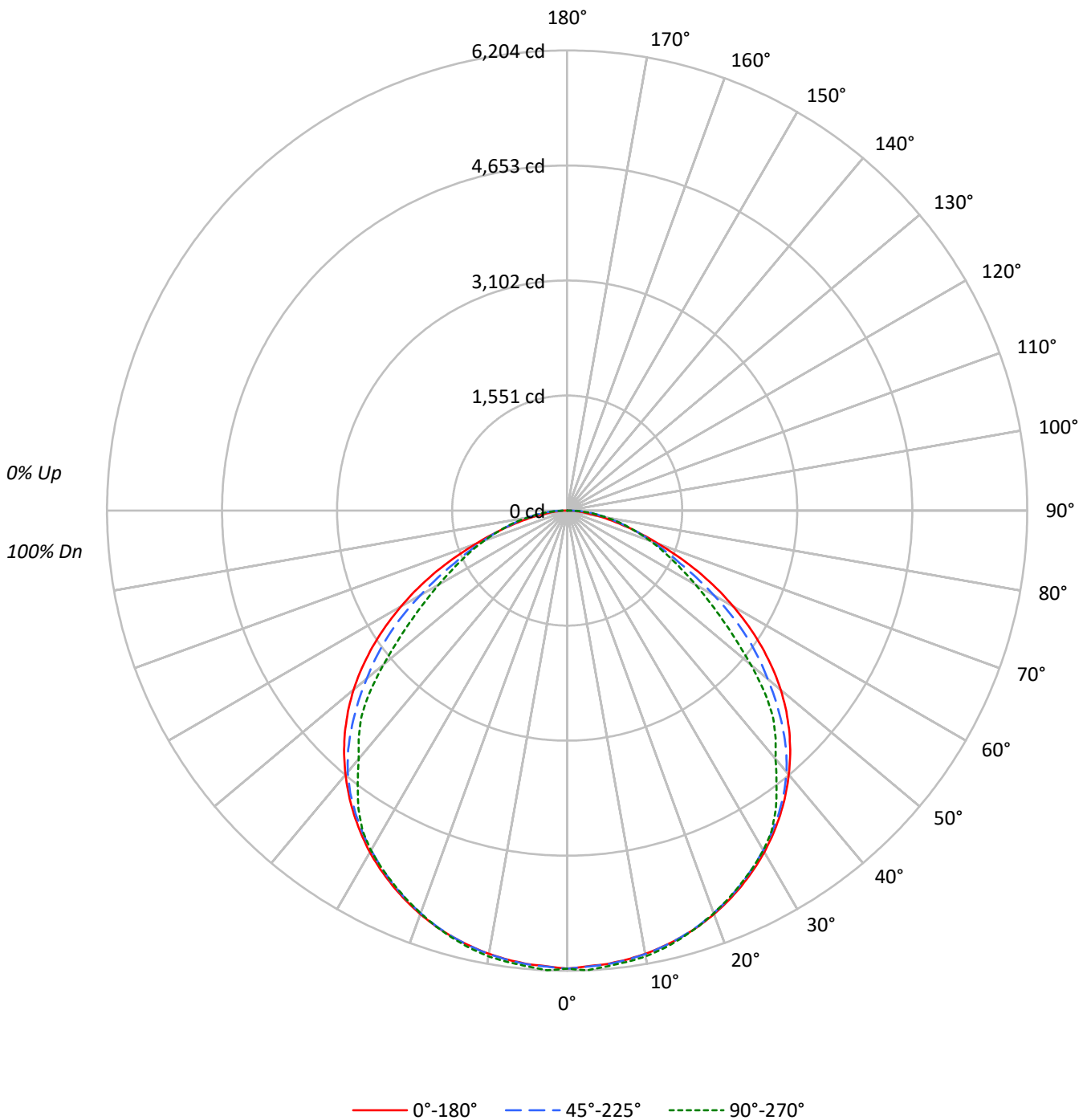
Lumens per Lamp: N/A
Luminaire Lumens: 16592.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8309	8309	8309
5°	8287	8293	8330
10°	8292	8296	8339
15°	8293	8292	8311
20°	8290	8271	8274
25°	8278	8247	8237
30°	8264	8215	8219
35°	8226	8175	8059
40°	8167	8084	7676
45°	8064	7805	7464
50°	7869	7390	6760
55°	7511	6911	5977
60°	6971	6167	5391
65°	6196	5339	4957
70°	5142	4771	4672
75°	4158	4367	4421
80°	3303	4176	4159
85°	2587	4486	4281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.7	3.5
10°-20°	1684.6	10.2
20°-30°	2568.7	15.5
30°-40°	3107.8	18.7
40°-50°	3147.9	19.0
50°-60°	2601.8	15.7
60°-70°	1718.5	10.4
70°-80°	896.1	5.4
80°-90°	280.9	1.7
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°	4839.0	29.2
0°-40°	7946.8	47.9
0°-60°	13696.5	82.5
0°-90°	16592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6176	6176	6176	6176	6176	
5°	6136	6173	6140	6167	6168	584
15°	5953	5984	5952	5971	5967	1681
25°	5576	5598	5555	5569	5548	2571
35°	5008	5015	4977	4970	4906	3132
45°	4238	4227	4102	3974	3923	3263
55°	3202	3154	2946	2660	2548	2854
65°	1946	1890	1677	1568	1557	1922
75°	800	814	840	851	850	871
85°	168	216	291	288	277	203
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6175.6	6175.6	6175.6	6175.6	6175.6
2.5°	6149.7	6186.0	6155.6	6182.3	6203.8
5°	6135.6	6172.7	6140.1	6166.7	6167.5
7.5°	6108.2	6145.2	6111.9	6138.6	6137.8
10°	6068.9	6103.7	6071.8	6103.7	6103.7
12.5°	6015.5	6049.6	6018.5	6048.1	6043.7
15°	5953.2	5983.6	5952.5	5971.0	5966.6
17.5°	5879.8	5907.3	5872.4	5888.0	5879.1
20°	5790.1	5815.3	5776.8	5796.8	5778.3
22.5°	5689.3	5713.0	5673.7	5688.6	5667.8
25°	5575.9	5598.1	5555.1	5569.2	5548.4
27.5°	5453.5	5473.6	5425.4	5442.4	5426.1
30°	5319.4	5329.0	5287.5	5309.7	5290.4
32.5°	5169.6	5175.5	5139.2	5159.2	5126.6
35°	5008.0	5014.6	4976.8	4970.2	4906.4
37.5°	4835.2	4838.2	4802.6	4742.6	4637.3
40°	4649.9	4648.4	4602.4	4463.8	4370.4
42.5°	4451.9	4451.2	4370.4	4212.5	4159.1
45°	4237.7	4226.6	4102.0	3974.5	3922.6
47.5°	4007.9	3996.0	3821.8	3720.2	3602.3
50°	3759.5	3738.7	3530.4	3391.8	3229.4
52.5°	3491.9	3460.0	3248.0	3024.1	2870.6
55°	3202.0	3154.5	2946.2	2660.0	2548.1
57.5°	2900.3	2829.8	2627.4	2348.7	2257.5
60°	2590.4	2511.8	2291.6	2062.5	2003.2
62.5°	2271.6	2193.7	1969.1	1796.3	1763.7
65°	1946.1	1889.8	1677.0	1568.0	1556.9
67.5°	1612.5	1592.5	1430.1	1374.5	1370.1
70°	1307.0	1303.3	1212.9	1184.7	1187.7
72.5°	1044.6	1040.1	1026.8	1012.7	1013.5
75°	799.9	814.0	840.0	851.1	850.4
77.5°	596.8	625.7	680.6	702.8	699.1
80°	426.3	469.3	539.0	559.7	536.8
82.5°	283.9	329.2	411.5	414.4	395.9
85°	167.6	215.7	290.6	288.4	277.3
87.5°	83.0	129.7	174.2	166.8	159.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)