

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-LD5-18SE-W-UNV-L840-ED1-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

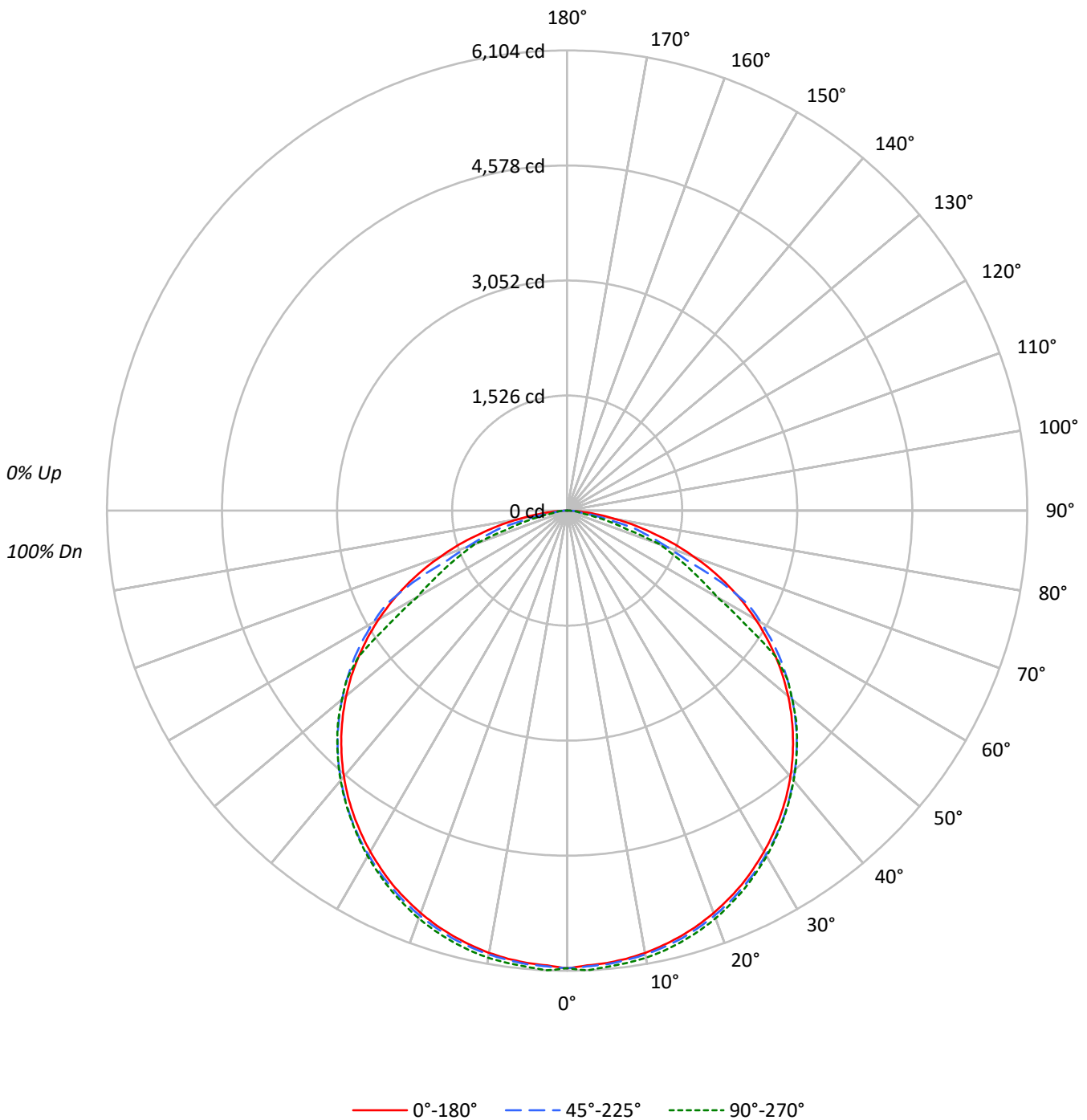
Lumens per Lamp: N/A
Luminaire Lumens: 17528.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8169	8169	8169
5°	8136	8158	8204
10°	8140	8169	8231
15°	8138	8182	8238
20°	8134	8186	8243
25°	8131	8189	8235
30°	8117	8196	8226
35°	8106	8200	8210
40°	8092	8199	8212
45°	8061	8196	8205
50°	8013	8161	8159
55°	7920	8118	7916
60°	7773	7998	6194
65°	7513	7198	5580
70°	7039	5538	5143
75°	6233	4828	3205
80°	5133	2843	1433
85°	3382	1741	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.2	3.3
10°-20°	1662.3	9.5
20°-30°	2548.5	14.5
30°-40°	3125.4	17.8
40°-50°	3318.7	18.9
50°-60°	3031.2	17.3
60°-70°	2110.9	12.0
70°-80°	984.5	5.6
80°-90°	170.3	1.0
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°	4786.9	27.3
0°-40°	7912.3	45.1
0°-60°	14262.2	81.4
0°-90°	17528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6072	6072	6072	6072	6072	
5°	6024	6066	6040	6069	6074	573
15°	5842	5883	5874	5909	5914	1650
25°	5477	5525	5516	5557	5547	2524
35°	4935	4992	4992	5026	4999	3088
45°	4236	4300	4307	4335	4312	3267
55°	3376	3444	3460	3466	3375	3015
65°	2360	2433	2261	1798	1753	2328
75°	1199	1275	929	644	616	1282
85°	219	144	113	121	122	283
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6071.5	6071.5	6071.5	6071.5	6071.5
2.5°	6039.5	6078.1	6052.6	6080.3	6103.6
5°	6023.5	6065.7	6040.2	6069.4	6074.5
7.5°	5997.3	6037.3	6014.0	6046.1	6054.1
10°	5958.0	5997.3	5979.1	6016.9	6024.2
12.5°	5904.8	5944.9	5931.1	5972.5	5977.6
15°	5842.2	5883.0	5873.5	5909.2	5914.3
17.5°	5768.7	5810.9	5800.0	5837.9	5841.5
20°	5680.6	5726.5	5717.0	5761.4	5757.1
22.5°	5581.7	5630.4	5623.1	5667.5	5654.4
25°	5476.8	5524.9	5516.1	5556.9	5546.7
27.5°	5353.8	5407.0	5398.9	5438.3	5422.2
30°	5224.2	5278.1	5275.2	5310.9	5294.9
32.5°	5084.5	5142.0	5139.1	5174.0	5149.3
35°	4935.3	4992.0	4992.0	5025.5	4998.6
37.5°	4777.3	4834.8	4835.5	4867.6	4842.1
40°	4607.0	4664.5	4668.1	4698.7	4675.4
42.5°	4427.9	4490.5	4493.4	4521.1	4499.2
45°	4236.5	4300.5	4307.1	4334.7	4312.2
47.5°	4036.3	4101.1	4106.9	4136.7	4120.7
50°	3828.1	3890.7	3898.7	3923.5	3898.0
52.5°	3608.3	3672.3	3683.3	3698.5	3686.9
55°	3376.1	3443.8	3460.5	3466.3	3374.6
57.5°	3135.9	3205.0	3221.0	3087.1	2792.3
60°	2888.4	2956.8	2972.1	2511.3	2301.7
62.5°	2630.7	2697.7	2714.4	2081.1	2014.1
65°	2359.9	2432.7	2260.9	1798.0	1752.8
67.5°	2081.8	2156.8	1709.9	1541.0	1514.1
70°	1789.2	1864.9	1407.8	1313.9	1307.3
72.5°	1508.2	1564.3	1155.2	995.8	838.6
75°	1198.9	1274.6	928.8	643.5	616.5
77.5°	929.5	803.6	560.5	471.7	372.0
80°	662.4	537.2	366.9	195.8	184.9
82.5°	420.0	350.9	144.1	147.8	154.3
85°	219.1	144.1	112.8	120.8	121.6
87.5°	70.6	61.9	67.7	67.0	66.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)