

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-CLI-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 (P23766)
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-CLI-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

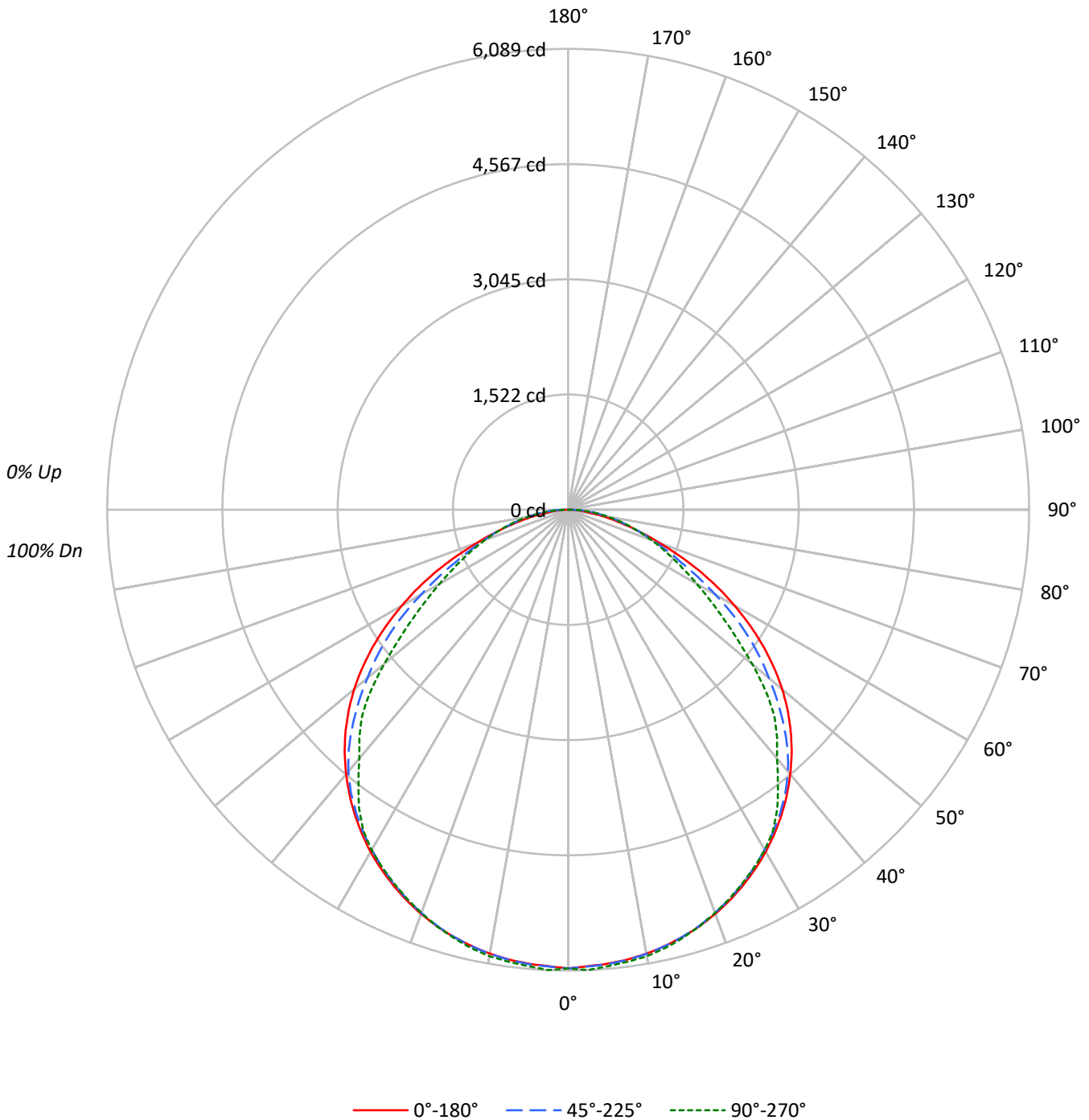
Lumens per Lamp: N/A
Luminaire Lumens: 16284.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8155	8155	8155
5°	8133	8139	8175
10°	8138	8142	8184
15°	8139	8138	8157
20°	8137	8118	8120
25°	8124	8094	8084
30°	8111	8062	8067
35°	8073	8023	7909
40°	8016	7934	7534
45°	7914	7661	7325
50°	7723	7253	6634
55°	7372	6783	5866
60°	6841	6052	5290
65°	6081	5240	4865
70°	5046	4683	4585
75°	4081	4286	4339
80°	3242	4099	4082
85°	2538	4403	4201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.8	3.5
10°-20°	1653.3	10.2
20°-30°	2521.1	15.5
30°-40°	3050.1	18.7
40°-50°	3089.5	19.0
50°-60°	2553.5	15.7
60°-70°	1686.6	10.4
70°-80°	879.4	5.4
80°-90°	275.7	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
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0°-30°	4749.2	29.2
0°-40°	7799.3	47.9
0°-60°	13442.3	82.5
0°-90°	16284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6061	6061	6061	6061	6061	
5°	6022	6058	6026	6052	6053	573
15°	5843	5872	5842	5860	5856	1650
25°	5472	5494	5452	5466	5445	2523
35°	4915	4922	4884	4878	4815	3074
45°	4159	4148	4026	3901	3850	3202
55°	3143	3096	2892	2611	2501	2801
65°	1910	1855	1646	1539	1528	1887
75°	785	799	824	835	835	855
85°	164	212	285	283	272	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6061.0	6061.0	6061.0	6061.0	6061.0
2.5°	6035.5	6071.2	6041.4	6067.5	6088.6
5°	6021.7	6058.1	6026.1	6052.3	6053.0
7.5°	5994.8	6031.2	5998.4	6024.6	6023.9
10°	5956.2	5990.4	5959.1	5990.4	5990.4
12.5°	5903.8	5937.3	5906.7	5935.8	5931.5
15°	5842.7	5872.5	5842.0	5860.2	5855.8
17.5°	5770.7	5797.6	5763.4	5778.7	5770.0
20°	5682.6	5707.4	5669.5	5689.2	5671.0
22.5°	5583.7	5607.0	5568.4	5583.0	5562.6
25°	5472.4	5494.2	5452.0	5465.8	5445.4
27.5°	5352.3	5371.9	5324.7	5341.4	5325.4
30°	5220.6	5230.1	5189.3	5211.1	5192.2
32.5°	5073.6	5079.5	5043.8	5063.4	5031.4
35°	4915.0	4921.6	4884.5	4877.9	4815.3
37.5°	4745.5	4748.4	4713.5	4654.5	4551.2
40°	4563.6	4562.1	4517.0	4380.9	4289.3
42.5°	4369.3	4368.6	4289.3	4134.3	4081.9
45°	4159.0	4148.1	4025.9	3900.7	3849.8
47.5°	3933.5	3921.8	3750.8	3651.2	3535.5
50°	3689.7	3669.3	3464.9	3328.8	3169.5
52.5°	3427.0	3395.8	3187.7	2967.9	2817.3
55°	3142.6	3096.0	2891.5	2610.7	2500.8
57.5°	2846.4	2777.3	2578.7	2305.1	2215.6
60°	2542.3	2465.1	2249.0	2024.2	1966.0
62.5°	2229.4	2153.0	1932.5	1763.0	1731.0
65°	1910.0	1854.7	1645.9	1538.9	1528.0
67.5°	1582.6	1562.9	1403.6	1349.0	1344.6
70°	1282.8	1279.1	1190.4	1162.7	1165.6
72.5°	1025.2	1020.8	1007.7	993.9	994.6
75°	785.1	798.9	824.4	835.3	834.6
77.5°	585.7	614.1	667.9	689.8	686.1
80°	418.4	460.6	529.0	549.3	526.8
82.5°	278.7	323.1	403.8	406.7	388.5
85°	164.4	211.7	285.2	283.0	272.1
87.5°	81.5	127.3	171.0	163.7	156.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)