

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-L835-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-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

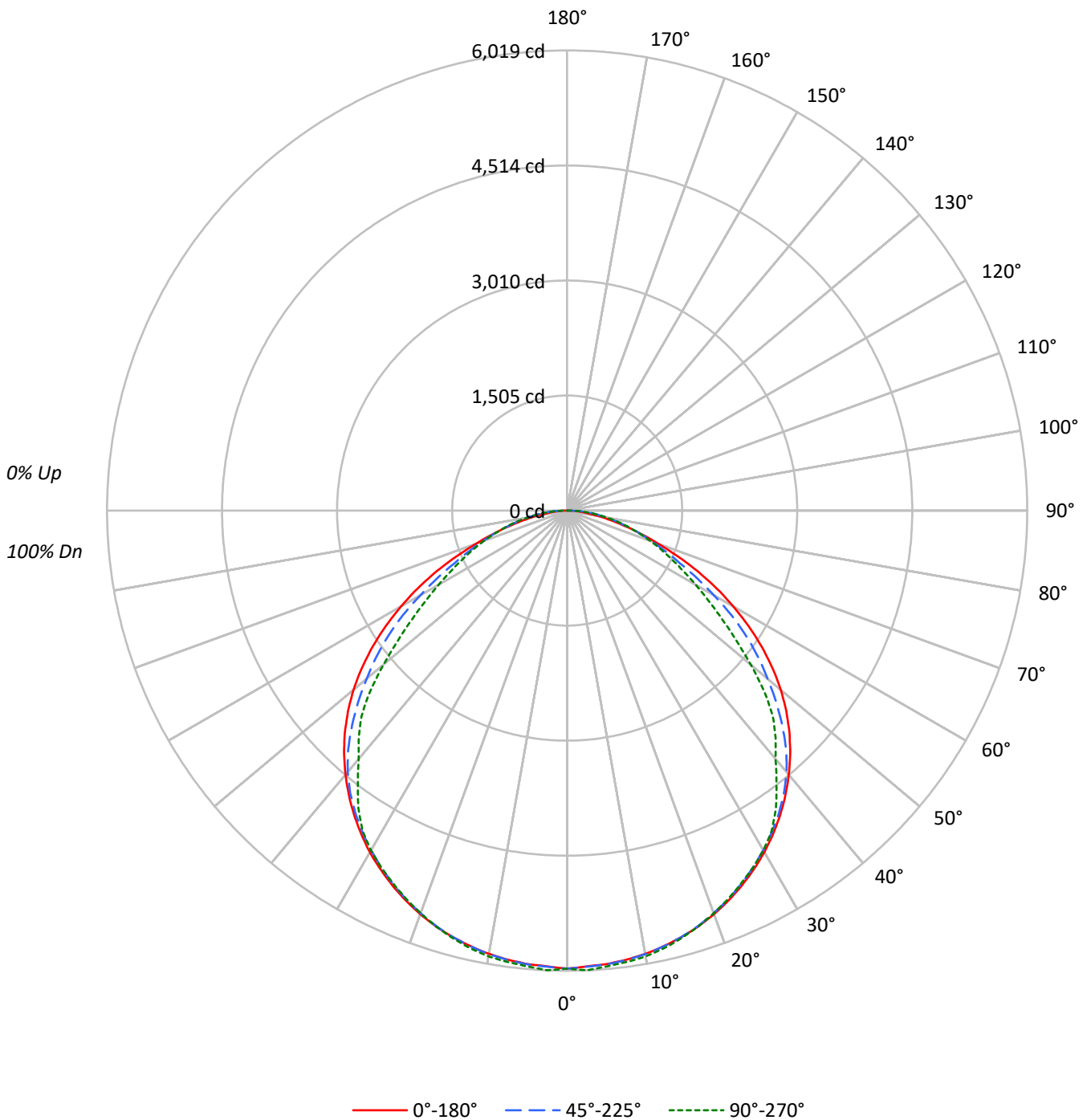
Lumens per Lamp: N/A  
Luminaire Lumens: 16097.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	8061	8061	8061
5°	8040	8046	8081
10°	8044	8048	8090
15°	8045	8044	8063
20°	8043	8025	8027
25°	8031	8001	7991
30°	8018	7970	7974
35°	7980	7931	7818
40°	7924	7843	7447
45°	7823	7572	7241
50°	7635	7169	6558
55°	7287	6705	5799
60°	6763	5983	5230
65°	6011	5180	4809
70°	4988	4629	4533
75°	4035	4236	4289
80°	3205	4052	4035
85°	2510	4352	4153



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.2	3.5
10°-20°	1634.3	10.2
20°-30°	2492.1	15.5
30°-40°	3015.1	18.7
40°-50°	3054.0	19.0
50°-60°	2524.2	15.7
60°-70°	1667.2	10.4
70°-80°	869.3	5.4
80°-90°	272.5	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°	4694.6	29.2
0°-40°	7709.7	47.9
0°-60°	13287.9	82.5
0°-90°	16097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16097.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5991	5991	5991	5991	5991	
5°	5953	5988	5957	5983	5984	566
15°	5776	5805	5775	5793	5789	1631
25°	5410	5431	5389	5403	5383	2494
35°	4859	4865	4828	4822	4760	3039
45°	4111	4100	3980	3856	3806	3166
55°	3106	3060	2858	2581	2472	2769
65°	1888	1833	1627	1521	1510	1865
75°	776	790	815	826	825	845
85°	163	209	282	280	269	197
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5991.4	5991.4	5991.4	5991.4	5991.4
2.5°	5966.2	6001.5	5972.0	5997.9	6018.7
5°	5952.6	5988.5	5956.9	5982.8	5983.5
7.5°	5925.9	5961.9	5929.5	5955.4	5954.7
10°	5887.8	5921.6	5890.7	5921.6	5921.6
12.5°	5836.0	5869.1	5838.9	5867.7	5863.4
15°	5775.6	5805.1	5774.9	5792.9	5788.6
17.5°	5704.4	5731.0	5697.2	5712.3	5703.7
20°	5617.4	5641.8	5604.4	5623.9	5605.9
22.5°	5519.6	5542.6	5504.5	5518.8	5498.7
25°	5409.5	5431.1	5389.4	5403.0	5382.9
27.5°	5290.8	5310.3	5263.5	5280.1	5264.2
30°	5160.7	5170.0	5129.7	5151.3	5132.6
32.5°	5015.4	5021.1	4985.9	5005.3	4973.6
35°	4858.6	4865.0	4828.4	4821.9	4760.0
37.5°	4691.0	4693.9	4659.3	4601.1	4498.9
40°	4511.2	4509.7	4465.1	4330.6	4240.0
42.5°	4319.1	4318.4	4240.0	4086.8	4035.0
45°	4111.3	4100.5	3979.6	3855.9	3805.6
47.5°	3888.3	3876.8	3707.8	3609.2	3494.9
50°	3647.3	3627.2	3425.1	3290.6	3133.1
52.5°	3387.7	3356.8	3151.1	2933.8	2785.0
55°	3106.5	3060.4	2858.3	2580.7	2472.1
57.5°	2813.7	2745.4	2549.0	2278.6	2190.1
60°	2513.1	2436.8	2223.2	2001.0	1943.4
62.5°	2203.8	2128.3	1910.3	1742.8	1711.1
65°	1888.0	1833.4	1627.0	1521.2	1510.4
67.5°	1564.4	1545.0	1387.4	1333.5	1329.2
70°	1268.0	1264.5	1176.7	1149.4	1152.2
72.5°	1013.4	1009.1	996.2	982.5	983.2
75°	776.1	789.7	814.9	825.7	825.0
77.5°	579.0	607.1	660.3	681.9	678.3
80°	413.6	455.3	522.9	543.0	520.7
82.5°	275.5	319.3	399.2	402.1	384.1
85°	162.6	209.3	281.9	279.8	269.0
87.5°	80.6	125.9	169.0	161.8	154.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)