

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-N-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 (P23769)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-N-CLI-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

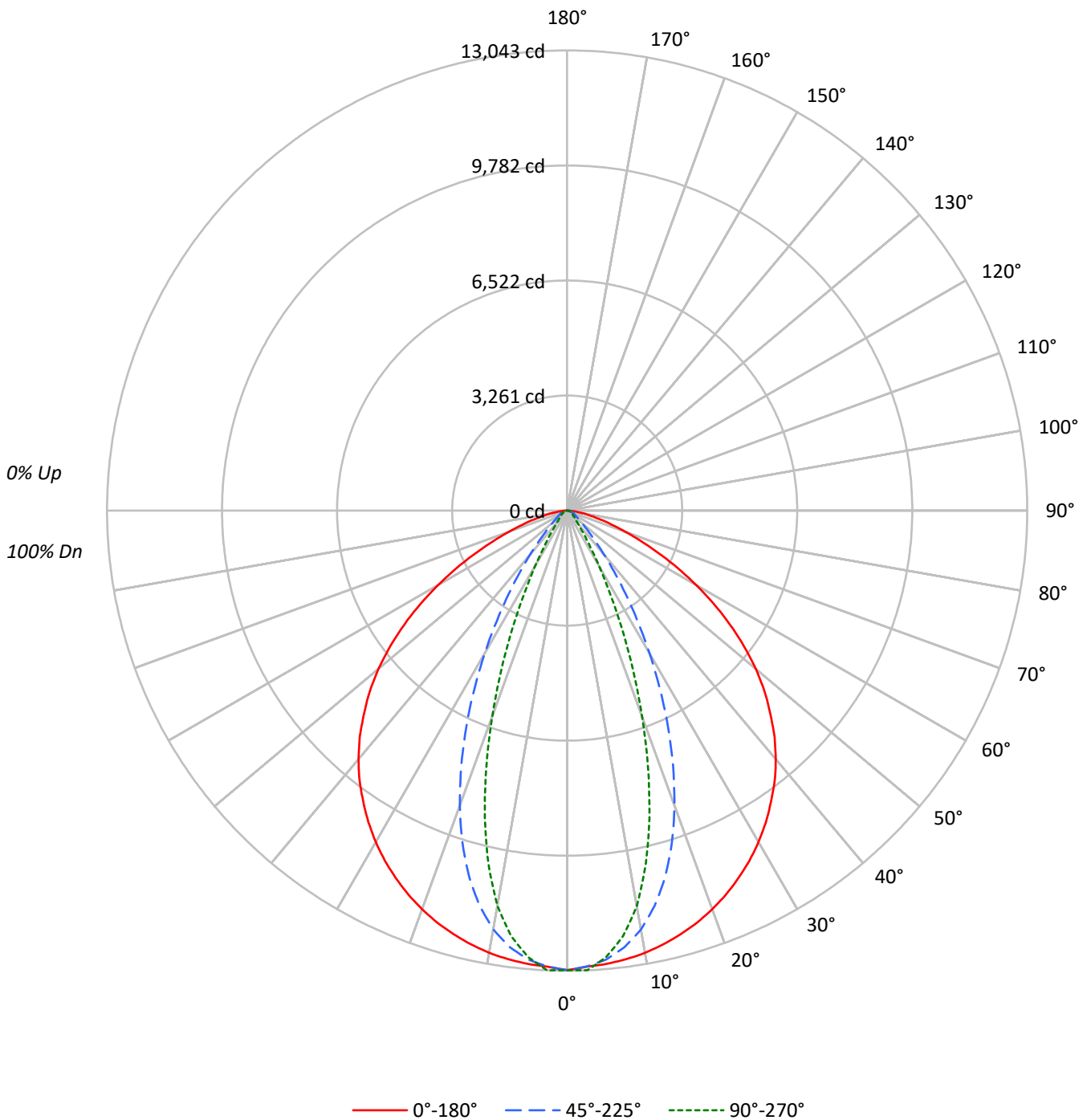
Lumens per Lamp: N/A  
Luminaire Lumens: 14260.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17526	17526	17526
5°	17420	17247	17156
10°	17391	16466	15538
15°	17321	14967	12549
20°	17217	12736	8894
25°	17063	10042	5374
30°	16856	7248	2762
35°	16552	4739	1379
40°	16159	2846	805
45°	15488	1700	602
50°	14608	1111	506
55°	13221	843	441
60°	11361	718	403
65°	9139	655	380
70°	6885	702	378
75°	5064	667	389
80°	3705	665	425
85°	2774	804	551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1199.6	8.4
10°-20°	2984.3	20.9
20°-30°	3305.5	23.2
30°-40°	2648.3	18.6
40°-50°	1890.6	13.3
50°-60°	1214.3	8.5
60°-70°	658.1	4.6
70°-80°	281.3	2.0
80°-90°	78.0	0.5
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°	7489.4	52.5
0°-40°	10137.7	71.1
0°-60°	13242.6	92.9
0°-90°	14260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14260.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13026	13026	13026	13026	13026	
5°	12898	12946	12770	12729	12702	###
15°	12435	12046	10745	9496	9009	3508
25°	11494	10134	6764	4407	3620	5295
35°	10077	7289	2885	1164	840	6300
45°	8139	4208	893	380	316	6274
55°	5636	1881	360	221	188	5023
65°	2870	772	206	142	119	2874
75°	974	283	128	89	75	1082
85°	180	75	52	43	36	220
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13025.5	13025.5	13025.5	13025.5	13025.5
2.5°	12939.7	13020.7	12933.5	12987.7	13043.3
5°	12897.9	12945.9	12769.6	12729.1	12702.3
7.5°	12825.2	12811.4	12480.1	12265.3	12161.7
10°	12729.1	12618.0	12052.0	11580.0	11372.8
12.5°	12591.9	12362.7	11472.2	10643.5	10292.2
15°	12434.8	12045.8	10745.0	9495.7	9008.6
17.5°	12246.8	11675.3	9875.8	8264.9	7622.1
20°	12024.5	11228.0	8894.7	6957.3	6211.6
22.5°	11776.2	10712.1	7844.4	5653.8	4853.9
25°	11493.5	10134.4	6764.5	4407.2	3619.6
27.5°	11188.2	9493.0	5690.8	3293.1	2574.8
30°	10849.3	8798.7	4665.2	2374.4	1777.6
32.5°	10479.5	8060.5	3712.3	1669.9	1215.7
35°	10076.8	7288.7	2884.9	1163.6	839.7
37.5°	9664.5	6501.1	2178.9	822.6	602.4
40°	9200.0	5716.2	1620.5	602.4	458.3
42.5°	8701.3	4946.5	1199.2	463.8	371.2
45°	8139.4	4207.6	893.2	380.1	316.3
47.5°	7594.7	3518.8	678.5	323.8	275.1
50°	6978.6	2897.2	531.0	282.7	241.5
52.5°	6324.8	2350.4	430.8	249.0	212.7
55°	5636.0	1881.2	359.5	220.9	188.0
57.5°	4938.2	1490.1	307.4	196.9	167.4
60°	4222.0	1191.7	266.9	176.3	149.6
62.5°	3522.9	952.9	233.3	158.5	133.8
65°	2870.5	772.5	205.8	142.0	119.4
67.5°	2267.4	610.6	192.1	127.6	107.7
70°	1750.1	475.4	178.4	113.9	96.0
72.5°	1326.1	365.0	157.8	101.5	85.1
75°	974.2	282.7	128.3	89.2	74.8
77.5°	697.0	217.5	104.3	77.5	64.5
80°	478.2	161.9	85.8	66.5	54.9
82.5°	310.8	114.6	69.3	54.9	45.3
85°	179.7	74.8	52.1	43.2	35.7
87.5°	77.5	41.2	35.7	32.2	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)