

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-L740-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-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

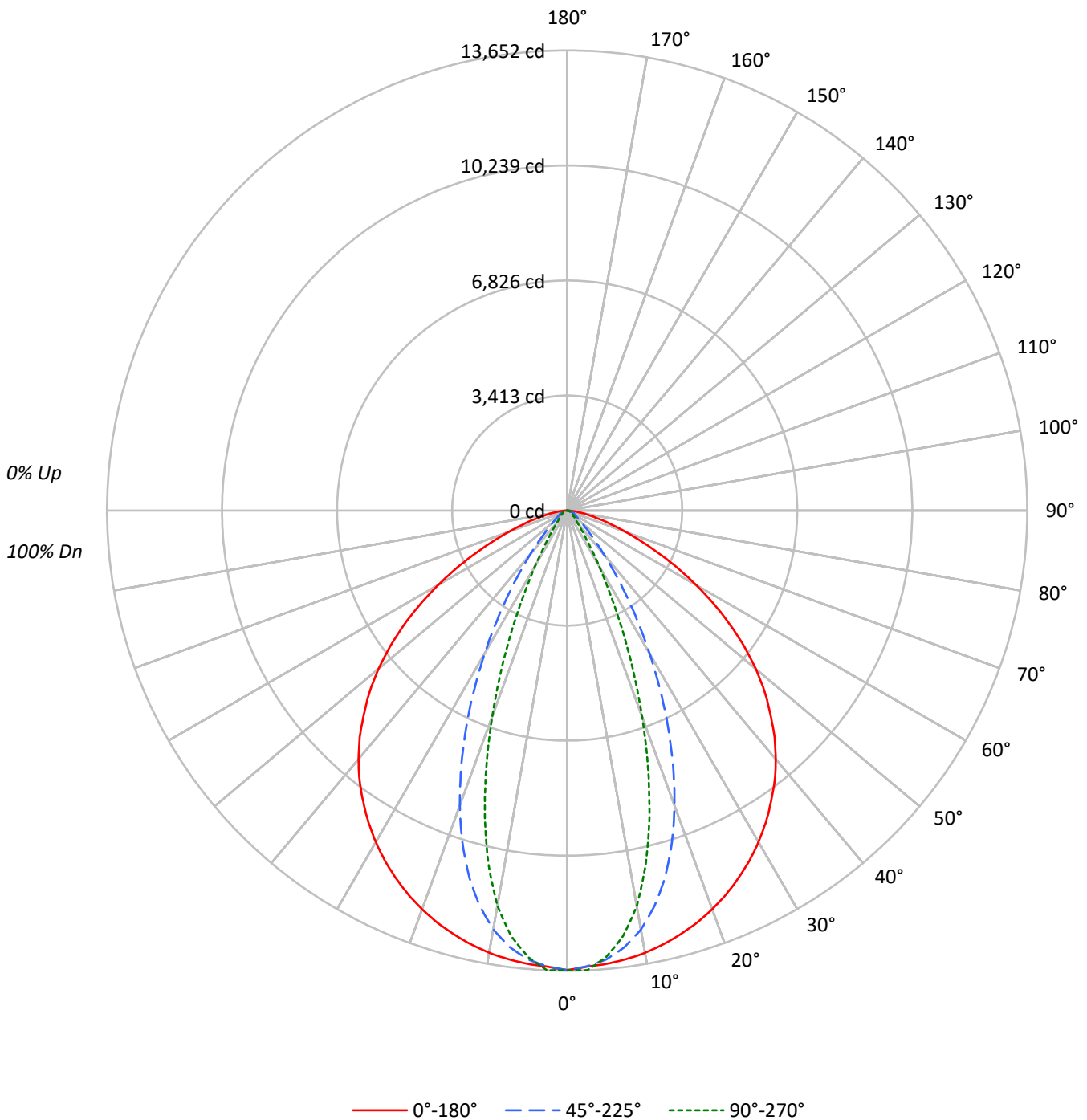
Lumens per Lamp: N/A
Luminaire Lumens: 14926.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	18344	18344	18344
5°	18234	18053	17957
10°	18203	17235	16264
15°	18130	15666	13135
20°	18021	13331	9309
25°	17860	10512	5625
30°	17643	7587	2891
35°	17325	4960	1444
40°	16914	2979	843
45°	16211	1779	630
50°	15290	1163	529
55°	13838	883	462
60°	11892	752	421
65°	9565	686	398
70°	7207	734	395
75°	5301	698	407
80°	3878	696	445
85°	2904	843	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1255.6	8.4
10°-20°	3123.7	20.9
20°-30°	3459.9	23.2
30°-40°	2772.0	18.6
40°-50°	1978.9	13.3
50°-60°	1271.1	8.5
60°-70°	688.8	4.6
70°-80°	294.4	2.0
80°-90°	81.6	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°	7839.2	52.5
0°-40°	10611.2	71.1
0°-60°	13861.1	92.9
0°-90°	14926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13634	13634	13634	13634	13634	
5°	13500	13550	13366	13324	13296	###
15°	13016	12608	11247	9939	9429	3672
25°	12030	10608	7080	4613	3789	5542
35°	10547	7629	3020	1218	879	6595
45°	8520	4404	935	398	331	6567
55°	5899	1969	376	231	197	5257
65°	3004	809	215	149	125	3009
75°	1020	296	134	93	78	1133
85°	188	78	55	45	37	230
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13633.8	13633.8	13633.8	13633.8	<i>13633.8</i>
2.5°	<i>13544.1</i>	<i>13628.8</i>	<i>13537.6</i>	<i>13594.3</i>	<i>13652.5</i>
5°	13500.3	13550.5	13366.0	13323.6	<i>13295.6</i>
7.5°	13424.1	13409.8	13062.9	12838.2	<i>12729.7</i>
10°	13323.6	13207.3	12614.8	12120.8	<i>11903.9</i>
12.5°	13180.0	12940.1	12008.0	11140.6	<i>10772.9</i>
15°	13015.5	12608.4	11246.9	9939.2	<i>9429.4</i>
17.5°	12818.8	12220.6	10337.0	8650.9	<i>7978.1</i>
20°	12586.1	11752.4	9310.2	7282.2	<i>6501.7</i>
22.5°	12326.2	11212.4	8210.7	5917.9	<i>5080.5</i>
25°	12030.3	10607.8	7080.5	4613.1	<i>3788.7</i>
27.5°	11710.8	9936.3	5956.6	3446.9	<i>2695.0</i>
30°	11356.0	9209.6	4883.1	2485.3	<i>1860.6</i>
32.5°	10969.0	8436.9	3885.6	1747.9	<i>1272.5</i>
35°	10547.4	7629.1	3019.6	1217.9	<i>879.0</i>
37.5°	10115.9	6804.7	2280.7	861.0	<i>630.5</i>
40°	9629.7	5983.2	1696.1	630.5	<i>479.7</i>
42.5°	9107.6	5177.5	1255.2	485.4	<i>388.5</i>
45°	8519.5	4404.1	935.0	397.8	<i>331.0</i>
47.5°	7949.4	3683.1	710.2	338.9	<i>288.0</i>
50°	7304.5	3032.5	555.8	295.9	<i>252.8</i>
52.5°	6620.2	2460.2	451.0	260.7	<i>222.6</i>
55°	5899.2	1969.0	376.3	231.2	<i>196.8</i>
57.5°	5168.9	1559.7	321.7	206.1	<i>175.2</i>
60°	4419.2	1247.3	279.3	184.6	<i>156.5</i>
62.5°	3687.4	997.4	244.2	165.9	<i>140.0</i>
65°	3004.5	808.6	215.4	148.6	<i>124.9</i>
67.5°	2373.3	639.1	201.1	133.6	<i>112.7</i>
70°	1831.9	497.6	186.7	119.2	<i>100.5</i>
72.5°	1388.1	382.0	165.2	106.3	<i>89.0</i>
75°	1019.7	295.9	134.3	93.4	<i>78.3</i>
77.5°	729.6	227.6	109.2	81.1	<i>67.5</i>
80°	500.5	169.5	89.8	69.7	<i>57.4</i>
82.5°	325.3	119.9	72.5	57.4	<i>47.4</i>
85°	188.1	78.3	54.6	45.2	<i>37.3</i>
87.5°	81.1	43.1	37.3	33.8	<i>28.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)