

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-UNV-L735-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 (P23767)  
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-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

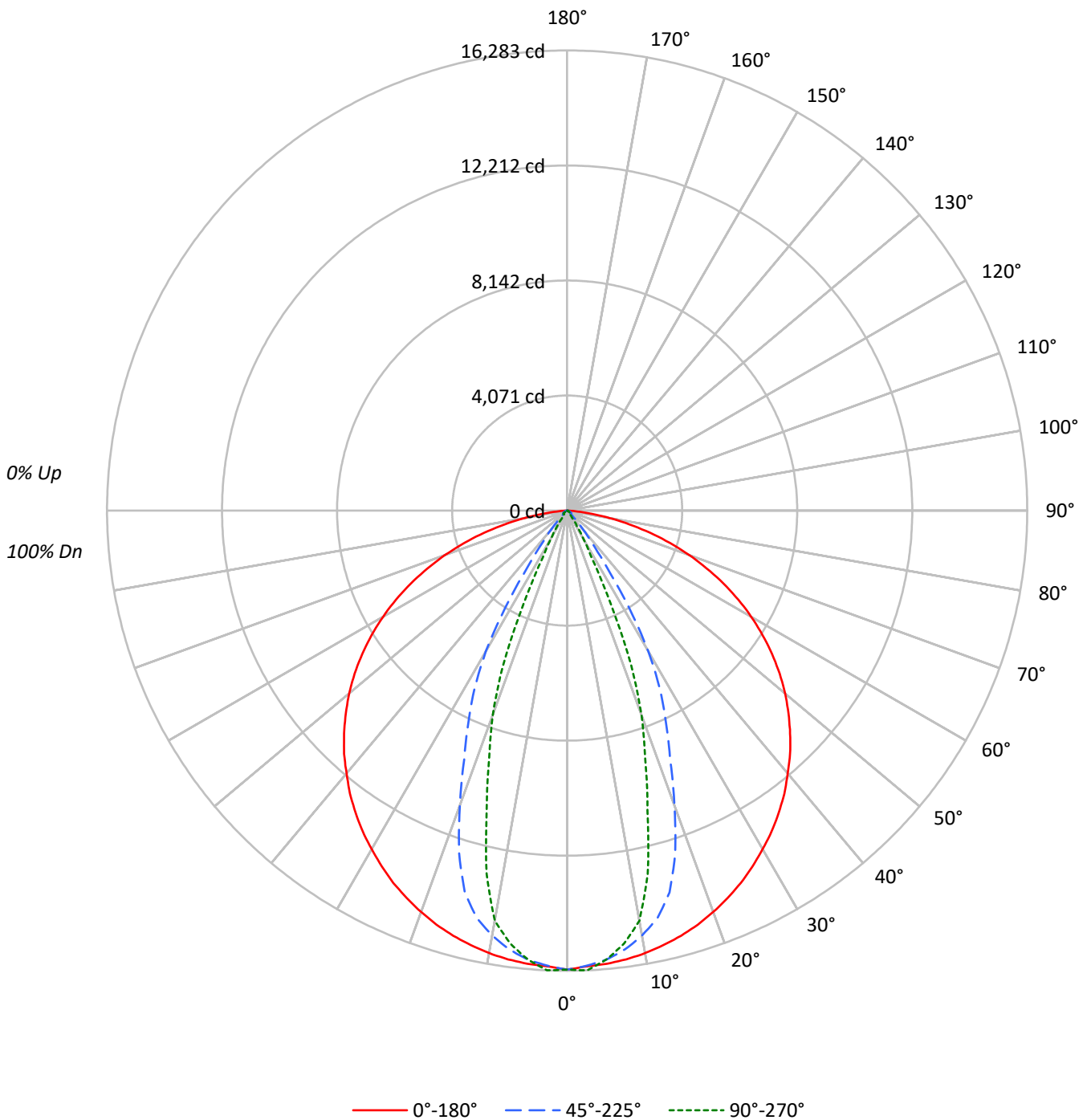
Lumens per Lamp: N/A  
Luminaire Lumens: 17265.0 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

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

	0°	45°	90°
0°	21856	21856	21856
5°	21739	21547	21537
10°	21725	20856	20125
15°	21695	19485	15316
20°	21644	15884	11024
25°	21589	12282	5431
30°	21493	8926	1761
35°	21443	3960	453
40°	21330	1608	305
45°	21235	451	325
50°	21070	320	361
55°	20766	381	154
60°	20254	424	94
65°	19421	271	111
70°	18042	240	137
75°	15783	181	189
80°	11802	222	270
85°	5845	286	358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1507.4	8.7
10°-20°	3769.3	21.8
20°-30°	4082.8	23.6
30°-40°	3023.5	17.5
40°-50°	2177.7	12.6
50°-60°	1348.4	7.8
60°-70°	829.2	4.8
70°-80°	437.1	2.5
80°-90°	89.5	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°	9359.6	54.2
0°-40°	12383.0	71.7
0°-60°	15909.1	92.1
0°-90°	17265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17265.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16244	16244	16244	16244	16244	
5°	16095	16155	15953	15965	15946	###
15°	15574	15213	13988	11896	10995	4397
25°	14542	13320	8273	5204	3658	6701
35°	13055	9203	2411	567	276	8167
45°	11160	5185	237	172	171	8607
55°	8852	1068	162	147	66	7903
65°	6100	113	85	54	35	6019
75°	3036	26	35	46	36	3207
85°	379	10	18	28	23	572
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16243.7	16243.7	16243.7	16243.7	16243.7
2.5°	16139.4	16242.2	16120.8	16211.2	16283.1
5°	16095.3	16154.8	15953.1	15964.7	15946.2
7.5°	16018.1	16004.1	15664.9	15516.6	15451.6
10°	15901.4	15809.4	15265.4	14955.5	14729.9
12.5°	15750.7	15545.1	14767.0	13781.8	13169.8
15°	15574.5	15212.9	13988.1	11895.5	10995.3
17.5°	15364.3	14852.0	12714.6	9969.8	9166.2
20°	15116.3	14449.4	11093.4	8482.3	7699.5
22.5°	14839.6	13959.5	9518.6	7049.7	5933.1
25°	14542.1	13320.4	8272.9	5204.4	3658.1
27.5°	14198.3	12499.0	7104.5	3065.4	1866.9
30°	13834.3	11509.9	5745.3	1649.0	1133.6
32.5°	13467.3	10388.7	4065.4	1030.1	642.9
35°	13054.6	9203.3	2410.9	567.2	275.9
37.5°	12624.2	8116.8	1424.9	258.1	177.0
40°	12144.3	7123.9	915.7	171.5	173.9
42.5°	11680.7	6198.1	515.4	169.2	172.3
45°	11159.9	5185.1	237.2	171.5	170.8
47.5°	10621.3	4134.9	153.8	173.1	173.1
50°	10065.7	2956.5	153.0	177.0	172.3
52.5°	9479.2	1844.5	159.2	176.2	141.4
55°	8852.5	1067.9	162.3	146.8	65.7
57.5°	8203.4	629.8	163.8	84.2	37.1
60°	7526.5	348.5	157.6	62.6	34.8
62.5°	6828.7	166.1	124.4	58.7	34.0
65°	6100.0	112.8	85.0	54.1	34.8
67.5°	5343.5	87.3	67.2	51.0	35.5
70°	4586.2	64.9	61.0	51.0	34.8
72.5°	3816.5	44.0	51.0	51.8	34.8
75°	3036.1	26.3	34.8	45.6	36.3
77.5°	2262.6	16.2	27.0	47.1	44.0
80°	1523.1	13.9	28.6	44.0	34.8
82.5°	894.1	12.4	27.8	34.0	27.8
85°	378.6	10.0	18.5	27.8	23.2
87.5°	71.1	8.5	14.7	22.4	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)