

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-W-WG-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

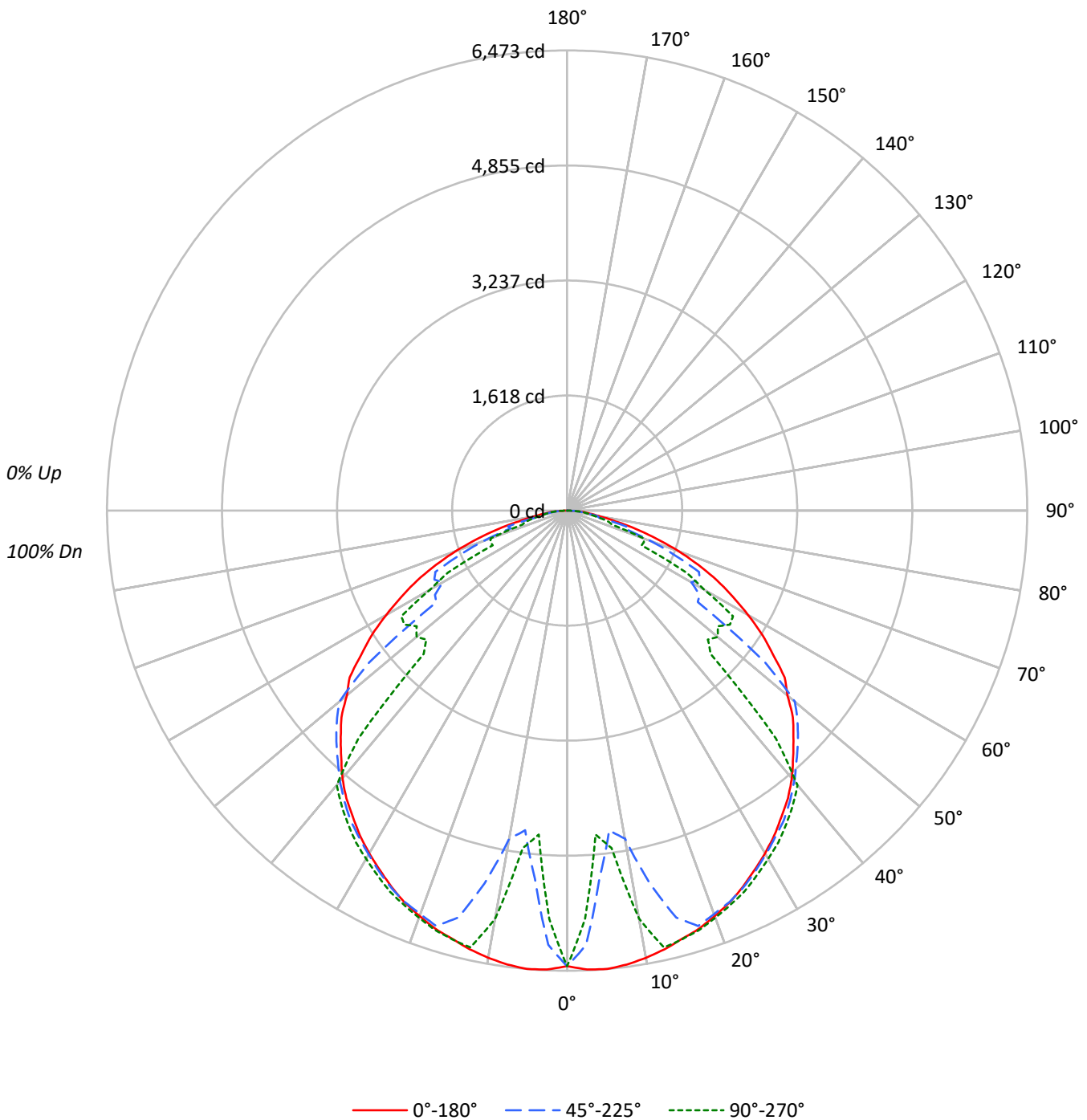
Lumens per Lamp: N/A  
Luminaire Lumens: 16978.0 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L735-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L735-ED1-U

**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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	8623	8623	8623
5°	8743	7024	6177
10°	8728	6405	7966
15°	8689	8255	8696
20°	8689	8649	8726
25°	8673	8693	8772
30°	8648	8677	8789
35°	8635	8730	8832
40°	8636	8730	8855
45°	8568	8736	5429
50°	8471	8753	5786
55°	8292	5263	6558
60°	7910	5426	6005
65°	7412	6514	3674
70°	6545	4935	4504
75°	5215	4486	3123
80°	3592	3242	2684
85°	3443	2993	2839



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L735-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.5	3.0
10°-20°	1605.5	9.5
20°-30°	2641.4	15.6
30°-40°	3321.2	19.6
40°-50°	3257.2	19.2
50°-60°	2698.8	15.9
60°-70°	1903.5	11.2
70°-80°	830.5	4.9
80°-90°	207.5	1.2
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°	4759.3	28.0
0°-40°	8080.5	47.6
0°-60°	14036.5	82.7
0°-90°	16978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16978.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6409	6409	6409	6409	6409	
5°	6473	6025	5200	4715	4573	615
15°	6238	4332	5927	6262	6243	1764
25°	5842	5346	5855	5894	5909	2693
35°	5257	5254	5315	5350	5377	3294
45°	4503	4517	4591	4066	2853	3476
55°	3535	3651	2244	2551	2796	3163
65°	2328	2465	2046	1574	1154	2289
75°	1003	983	863	564	601	1076
85°	223	198	194	185	184	231
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L735-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6408.6	6408.6	6408.6	6408.6	6408.6
2.5°	6461.5	6327.4	6114.4	5846.2	5751.1
5°	6473.0	6024.7	5200.2	4715.1	4573.3
7.5°	6440.1	5475.3	4533.5	4635.4	4785.6
10°	6388.0	4992.5	4688.3	5515.9	5830.8
12.5°	6321.3	4563.4	5371.1	6230.9	6293.7
15°	6237.8	4331.9	5926.6	6262.3	6243.1
17.5°	6167.3	4467.6	6125.9	6199.4	6185.6
20°	6068.4	4738.1	6040.8	6099.8	6094.5
22.5°	5968.8	5058.4	5960.4	6002.5	6002.5
25°	5842.3	5345.8	5855.4	5894.4	5909.0
27.5°	5703.6	5511.3	5724.3	5756.5	5782.6
30°	5566.5	5535.1	5584.9	5626.2	5656.9
32.5°	5421.6	5409.4	5448.5	5492.1	5531.2
35°	5256.9	5253.8	5315.1	5350.4	5377.2
37.5°	5102.1	5091.4	5148.1	5197.1	5217.8
40°	4916.6	4916.6	4970.3	5020.1	5041.5
42.5°	4705.1	4735.0	4776.4	4827.7	4348.0
45°	4502.8	4516.6	4591.0	4066.0	2853.0
47.5°	4308.2	4325.8	4396.3	2613.9	2685.1
50°	4046.9	4126.6	4181.7	2606.2	2764.1
52.5°	3856.1	3890.6	3510.5	2580.2	2669.1
55°	3535.0	3650.7	2243.8	2551.0	2795.5
57.5°	3260.6	3344.9	2206.2	2613.9	2765.6
60°	2939.6	3068.3	2016.2	2521.9	2231.5
62.5°	2631.5	2754.1	2105.1	1984.7	1889.7
65°	2328.0	2465.2	2046.0	1574.0	1154.1
67.5°	1995.5	1867.5	1632.2	1108.8	1167.1
70°	1663.7	1304.3	1254.4	1239.9	1144.9
72.5°	1322.6	951.8	833.0	930.3	665.9
75°	1003.1	983.2	862.9	564.0	600.8
77.5°	695.8	709.6	462.1	550.2	456.7
80°	463.6	401.5	418.4	351.0	346.4
82.5°	321.1	328.0	275.1	266.7	270.5
85°	223.0	198.5	193.9	185.4	183.9
87.5°	74.3	86.6	80.5	72.8	77.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)