

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-LD5-18HE-W-A-UNV-L835-ED2-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-A-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

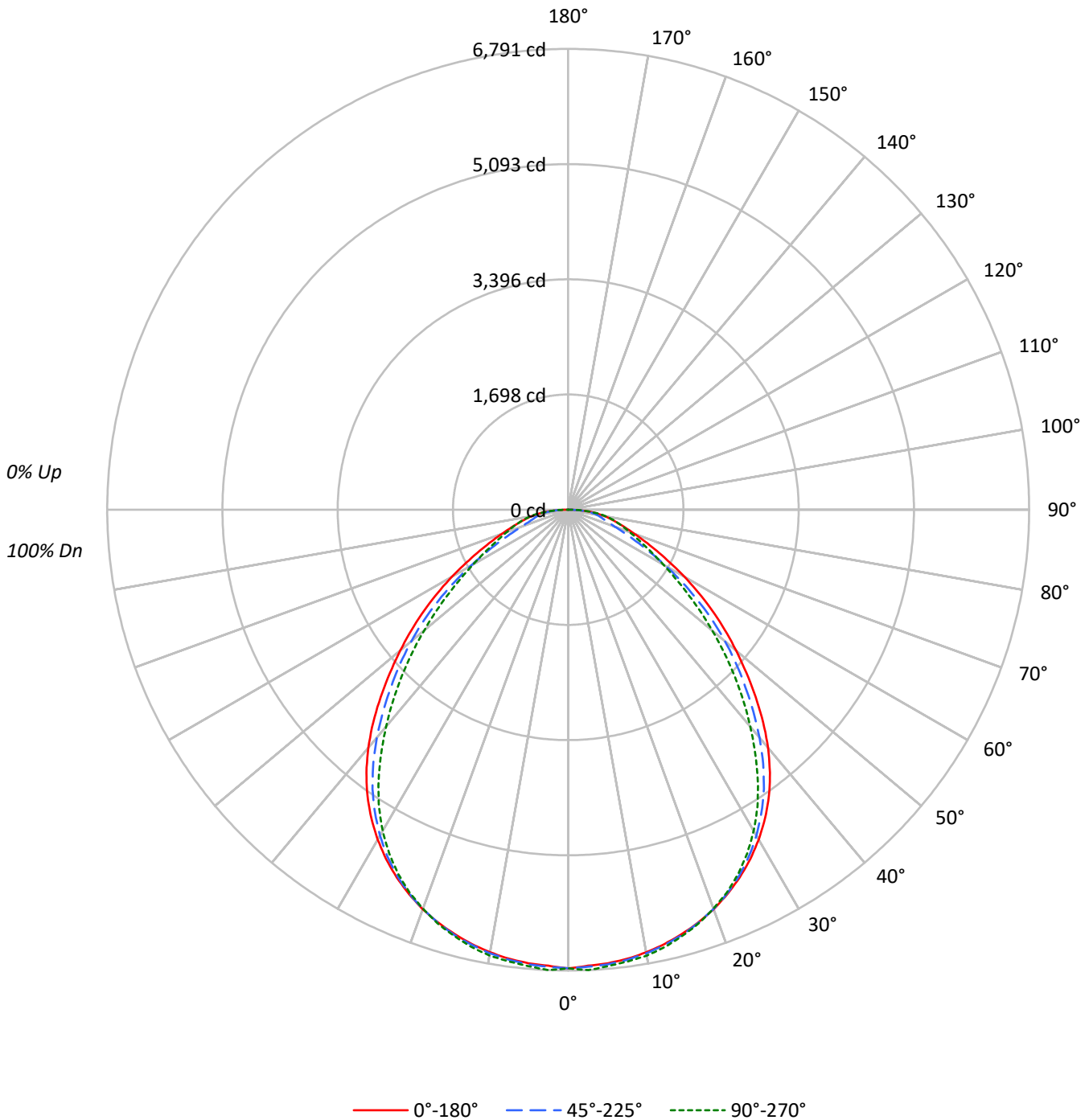
Lumens per Lamp: N/A
Luminaire Lumens: 15525.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9093	9093	9093
5°	9061	9082	9119
10°	9048	9069	9115
15°	9018	9036	9057
20°	8971	8964	8958
25°	8874	8843	8793
30°	8720	8615	8489
35°	8467	8254	8000
40°	8046	7700	7331
45°	7433	7018	6593
50°	6757	6319	5799
55°	6075	5471	5013
60°	5316	4471	4350
65°	4584	3516	3926
70°	4087	2869	3784
75°	3915	2802	3955
80°	4234	3313	4406
85°	4753	3989	4801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.5	4.1
10°-20°	1833.1	11.8
20°-30°	2742.2	17.7
30°-40°	3128.6	20.2
40°-50°	2847.9	18.3
50°-60°	2091.2	13.5
60°-70°	1234.8	8.0
70°-80°	707.6	4.6
80°-90°	299.2	1.9
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°	5215.8	33.6
0°-40°	8344.4	53.7
0°-60°	13283.5	85.6
0°-90°	15525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6758	6758	6758	6758	6758	
5°	6709	6751	6724	6751	6751	638
15°	6474	6510	6487	6510	6502	1827
25°	5977	5998	5956	5954	5923	2751
35°	5155	5130	5025	4939	4870	3212
45°	3906	3883	3688	3523	3465	3010
55°	2590	2470	2332	2163	2137	2316
65°	1440	1257	1104	1181	1233	1449
75°	753	646	539	703	761	812
85°	308	284	258	305	311	322
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6758.3	6758.3	6758.3	6758.3	6758.3
2.5°	6727.0	6765.9	6741.5	6768.2	6791.1
5°	6708.8	6750.7	6724.0	6750.7	6751.4
7.5°	6675.2	6714.1	6688.2	6717.1	6714.1
10°	6622.6	6661.5	6637.9	6669.1	6671.4
12.5°	6555.6	6592.9	6568.5	6604.3	6598.2
15°	6474.0	6509.8	6487.0	6509.8	6502.2
17.5°	6378.0	6410.7	6381.0	6406.2	6393.2
20°	6265.2	6292.6	6260.6	6284.2	6256.0
22.5°	6130.3	6154.6	6121.1	6134.1	6105.1
25°	5977.1	5998.4	5956.5	5954.2	5922.9
27.5°	5806.3	5817.8	5764.4	5746.1	5710.3
30°	5612.7	5615.8	5544.9	5510.6	5464.1
32.5°	5395.5	5387.9	5297.2	5246.1	5189.0
35°	5154.7	5129.5	5025.1	4939.0	4870.4
37.5°	4882.6	4842.9	4717.9	4590.6	4525.1
40°	4580.7	4534.2	4384.1	4226.3	4173.7
42.5°	4252.2	4212.6	4035.8	3871.1	3819.3
45°	3906.2	3883.3	3688.2	3522.8	3464.9
47.5°	3560.2	3543.4	3352.9	3184.4	3114.3
50°	3227.9	3191.3	3019.0	2834.6	2770.5
52.5°	2905.4	2830.8	2679.1	2490.1	2442.8
55°	2589.9	2470.2	2332.3	2163.1	2137.2
57.5°	2277.4	2122.7	1988.5	1862.0	1861.3
60°	1975.6	1798.8	1661.6	1595.3	1616.6
62.5°	1692.8	1511.4	1362.8	1367.4	1406.2
65°	1439.8	1256.8	1104.4	1181.4	1233.2
67.5°	1222.5	1048.0	893.3	1036.6	1086.1
70°	1038.9	881.1	729.4	908.5	961.9
72.5°	884.1	751.5	615.1	801.8	855.9
75°	753.0	645.6	538.9	702.7	760.7
77.5°	646.3	551.1	483.2	608.2	668.4
80°	546.5	462.6	427.6	516.8	568.6
82.5°	432.9	375.0	354.4	420.0	446.6
85°	307.9	284.3	258.4	304.9	311.0
87.5°	169.2	175.3	144.8	175.3	176.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)