

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-CLI-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 (P23766)  
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-CLI-UNV-L835-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

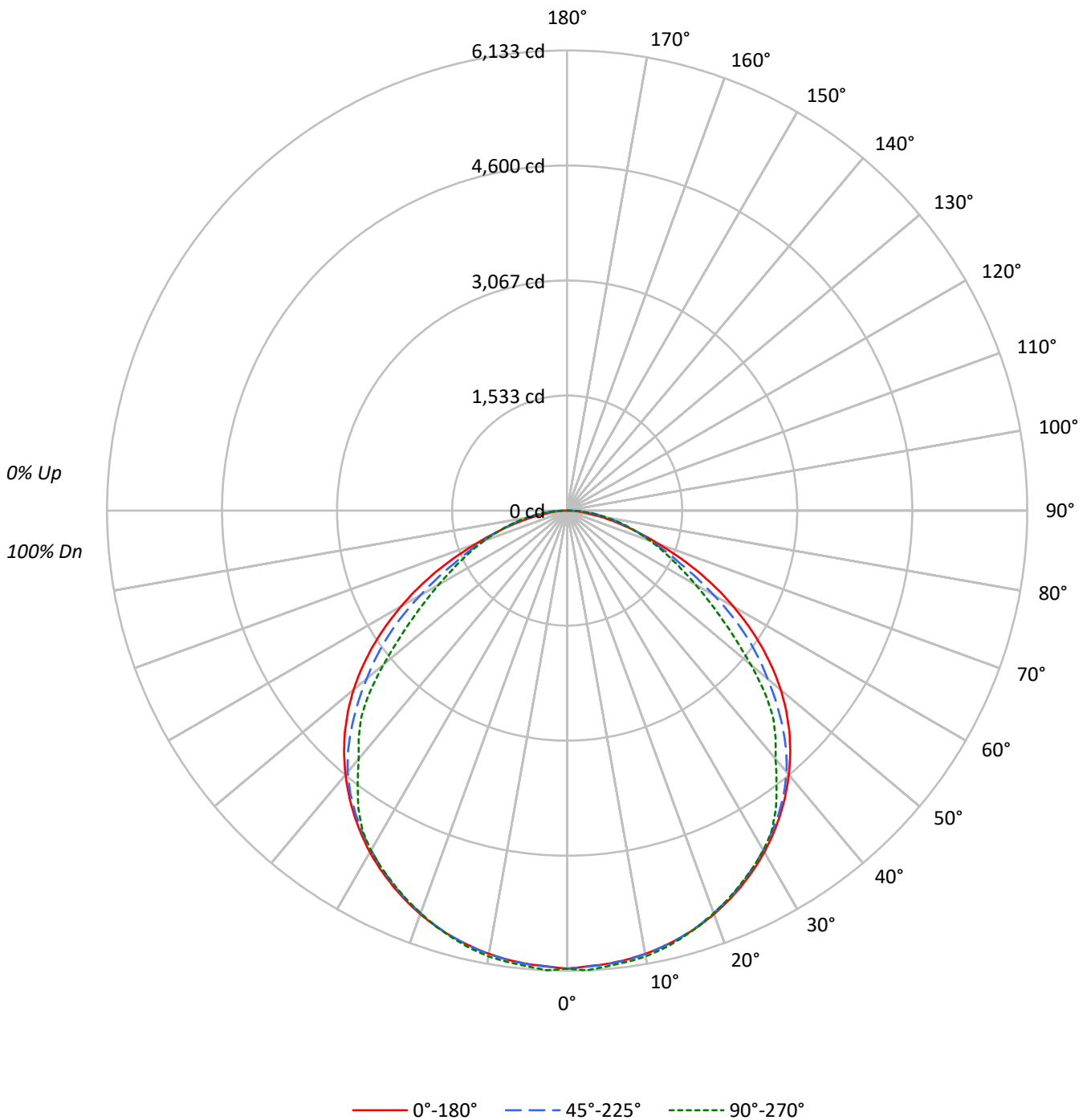
Lumens per Lamp: N/A  
Luminaire Lumens: 16402.0 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	8214	8214	8214
5°	8192	8198	8235
10°	8197	8201	8244
15°	8198	8197	8216
20°	8196	8177	8179
25°	8183	8153	8143
30°	8170	8121	8125
35°	8132	8081	7967
40°	8074	7991	7588
45°	7971	7716	7379
50°	7779	7305	6682
55°	7425	6832	5909
60°	6891	6096	5329
65°	6125	5278	4900
70°	5083	4717	4619
75°	4111	4317	4370
80°	3265	4128	4111
85°	2556	4435	4231



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.0	3.5
10°-20°	1665.3	10.2
20°-30°	2539.3	15.5
30°-40°	3072.2	18.7
40°-50°	3111.9	19.0
50°-60°	2572.0	15.7
60°-70°	1698.8	10.4
70°-80°	885.8	5.4
80°-90°	277.7	1.7
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°	4783.6	29.2
0°-40°	7855.8	47.9
0°-60°	13539.7	82.5
0°-90°	16402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6105	6105	6105	6105	6105	
5°	6065	6102	6070	6096	6097	577
15°	5885	5915	5884	5903	5898	1662
25°	5512	5534	5492	5505	5485	2542
35°	4951	4957	4920	4913	4850	3097
45°	4189	4178	4055	3929	3878	3226
55°	3165	3118	2912	2630	2519	2821
65°	1924	1868	1658	1550	1539	1900
75°	791	805	830	841	841	861
85°	166	213	287	285	274	201
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6104.9	6104.9	6104.9	6104.9	6104.9
2.5°	6079.3	6115.2	6085.1	6111.5	6132.8
5°	6065.3	6102.0	6069.7	6096.1	6096.9
7.5°	6038.2	6074.9	6041.9	6068.3	6067.5
10°	5999.4	6033.8	6002.3	6033.8	6033.8
12.5°	5946.6	5980.3	5949.5	5978.9	5974.5
15°	5885.1	5915.1	5884.3	5902.6	5898.2
17.5°	5812.5	5839.6	5805.2	5820.6	5811.8
20°	5723.8	5748.7	5710.6	5730.4	5712.1
22.5°	5624.1	5647.6	5608.8	5623.4	5602.9
25°	5512.0	5534.0	5491.5	5505.4	5484.9
27.5°	5391.1	5410.9	5363.2	5380.1	5364.0
30°	5258.4	5268.0	5226.9	5248.9	5229.9
32.5°	5110.4	5116.3	5080.3	5100.1	5067.9
35°	4950.6	4957.2	4919.8	4913.2	4850.2
37.5°	4779.9	4782.8	4747.6	4688.3	4584.2
40°	4596.6	4595.2	4549.7	4412.7	4320.3
42.5°	4401.0	4400.2	4320.3	4164.2	4111.5
45°	4189.2	4178.2	4055.0	3929.0	3877.7
47.5°	3962.0	3950.2	3778.0	3677.6	3561.1
50°	3716.5	3695.9	3490.0	3352.9	3192.4
52.5°	3451.9	3420.4	3210.8	2989.4	2837.7
55°	3165.3	3118.4	2912.5	2629.6	2518.9
57.5°	2867.0	2797.4	2597.3	2321.8	2231.6
60°	2560.7	2483.0	2265.3	2038.9	1980.3
62.5°	2245.6	2168.6	1946.5	1775.8	1743.5
65°	1923.8	1868.1	1657.8	1550.0	1539.1
67.5°	1594.0	1574.2	1413.7	1358.8	1354.4
70°	1292.1	1288.4	1199.0	1171.1	1174.1
72.5°	1032.6	1028.2	1015.0	1001.1	1001.9
75°	790.8	804.7	830.4	841.3	840.6
77.5°	590.0	618.6	672.8	694.8	691.1
80°	421.4	463.9	532.8	553.3	530.6
82.5°	280.7	325.4	406.8	409.7	391.4
85°	165.6	213.3	287.3	285.1	274.1
87.5°	82.1	128.3	172.2	164.9	157.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)