

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-LD5-12HE-W-A-UNV-L835-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-A-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

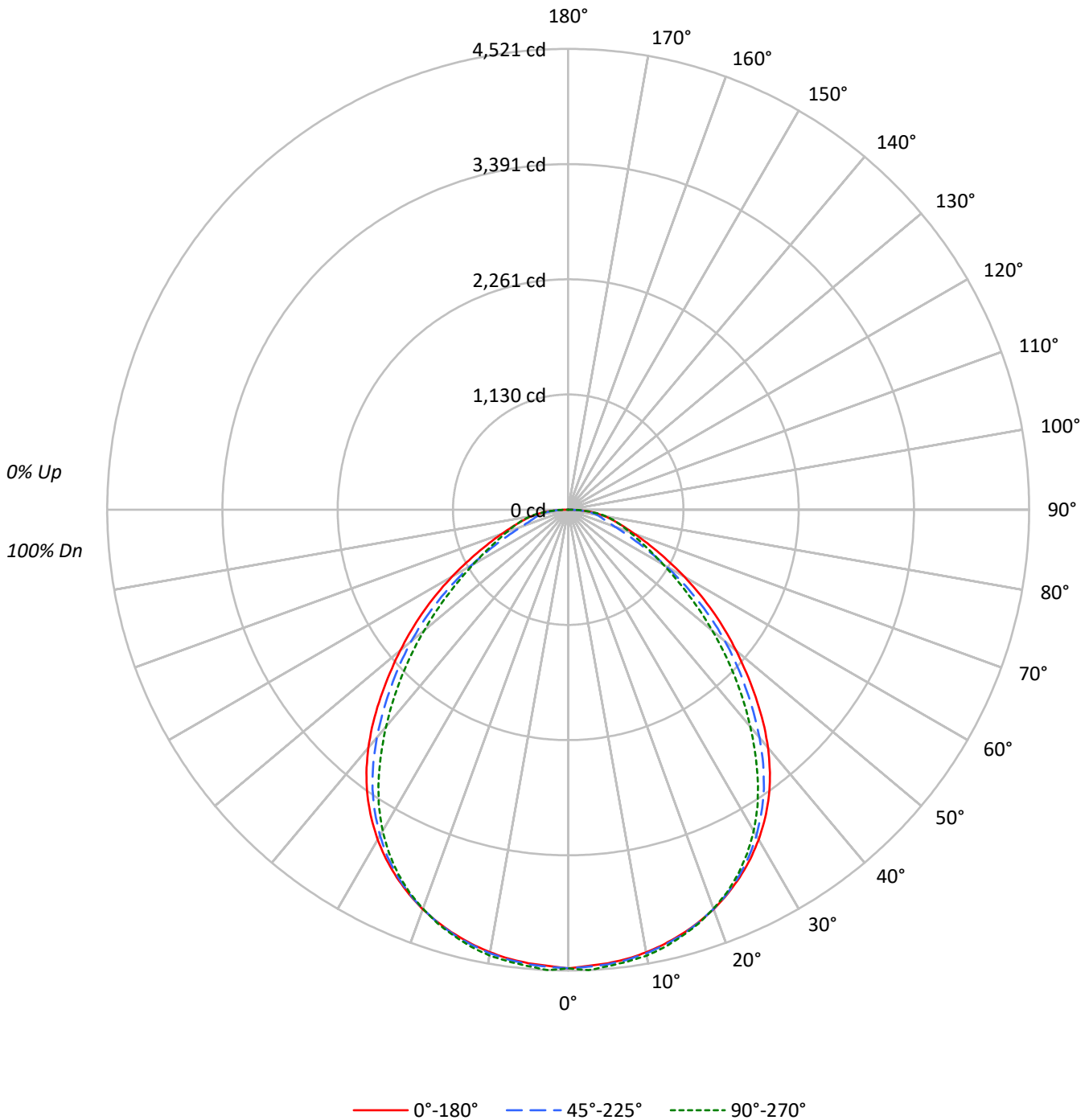
Lumens per Lamp: N/A
Luminaire Lumens: 10336.0 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6054	6054	6054
5°	6033	6046	6071
10°	6024	6038	6068
15°	6004	6016	6030
20°	5972	5968	5964
25°	5908	5887	5854
30°	5806	5735	5652
35°	5637	5495	5326
40°	5357	5127	4881
45°	4948	4672	4389
50°	4498	4207	3861
55°	4045	3643	3338
60°	3539	2977	2896
65°	3052	2341	2614
70°	2721	1910	2519
75°	2606	1865	2633
80°	2819	2206	2933
85°	3165	2655	3196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	4.1
10°-20°	1220.4	11.8
20°-30°	1825.6	17.7
30°-40°	2082.9	20.2
40°-50°	1896.0	18.3
50°-60°	1392.2	13.5
60°-70°	822.0	8.0
70°-80°	471.1	4.6
80°-90°	199.2	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°	3472.5	33.6
0°-40°	5555.4	53.7
0°-60°	8843.7	85.6
0°-90°	10336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4499	4499	4499	4499	4499	
5°	4466	4494	4477	4494	4495	425
15°	4310	4334	4319	4334	4329	1216
25°	3979	3994	3966	3964	3943	1832
35°	3432	3415	3346	3288	3242	2138
45°	2601	2585	2456	2345	2307	2004
55°	1724	1645	1553	1440	1423	1542
65°	958	837	735	786	821	965
75°	501	430	359	468	506	540
85°	205	189	172	203	207	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4499.4	4499.4	4499.4	4499.4	4499.4
2.5°	4478.6	4504.5	4488.3	4506.0	4521.3
5°	4466.5	4494.4	4476.6	4494.4	4494.9
7.5°	4444.1	4470.0	4452.8	4472.0	4470.0
10°	4409.1	4435.0	4419.3	4440.1	4441.6
12.5°	4364.5	4389.3	4373.1	4396.9	4392.9
15°	4310.2	4334.0	4318.8	4334.0	4328.9
17.5°	4246.2	4268.0	4248.3	4265.0	4256.4
20°	4171.1	4189.4	4168.1	4183.8	4165.0
22.5°	4081.3	4097.5	4075.2	4083.8	4064.6
25°	3979.3	3993.5	3965.6	3964.1	3943.3
27.5°	3865.6	3873.3	3837.7	3825.6	3801.7
30°	3736.8	3738.8	3691.6	3668.8	3637.8
32.5°	3592.1	3587.1	3526.7	3492.7	3454.6
35°	3431.8	3415.0	3345.5	3288.2	3242.5
37.5°	3250.6	3224.2	3141.0	3056.3	3012.6
40°	3049.7	3018.7	2918.8	2813.7	2778.7
42.5°	2831.0	2804.6	2686.9	2577.3	2542.8
45°	2600.6	2585.4	2455.5	2345.4	2306.8
47.5°	2370.2	2359.1	2232.2	2120.1	2073.4
50°	2149.0	2124.6	2010.0	1887.2	1844.5
52.5°	1934.3	1884.6	1783.6	1657.8	1626.3
55°	1724.3	1644.6	1552.8	1440.1	1422.9
57.5°	1516.2	1413.2	1323.9	1239.7	1239.2
60°	1315.3	1197.5	1106.2	1062.1	1076.3
62.5°	1127.0	1006.2	907.3	910.3	936.2
65°	958.5	836.8	735.3	786.5	821.0
67.5°	813.9	697.7	594.7	690.1	723.1
70°	691.6	586.6	485.6	604.9	640.4
72.5°	588.6	500.3	409.5	533.8	569.9
75°	501.3	429.8	358.8	467.9	506.4
77.5°	430.3	366.9	321.7	404.9	445.0
80°	363.8	308.0	284.7	344.0	378.5
82.5°	288.2	249.7	236.0	279.6	297.4
85°	205.0	189.3	172.0	203.0	207.0
87.5°	112.7	116.7	96.4	116.7	117.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)