

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-LD5-36HE-W-A-UNV-L840-ED3-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-LD5-36HE-W-A-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

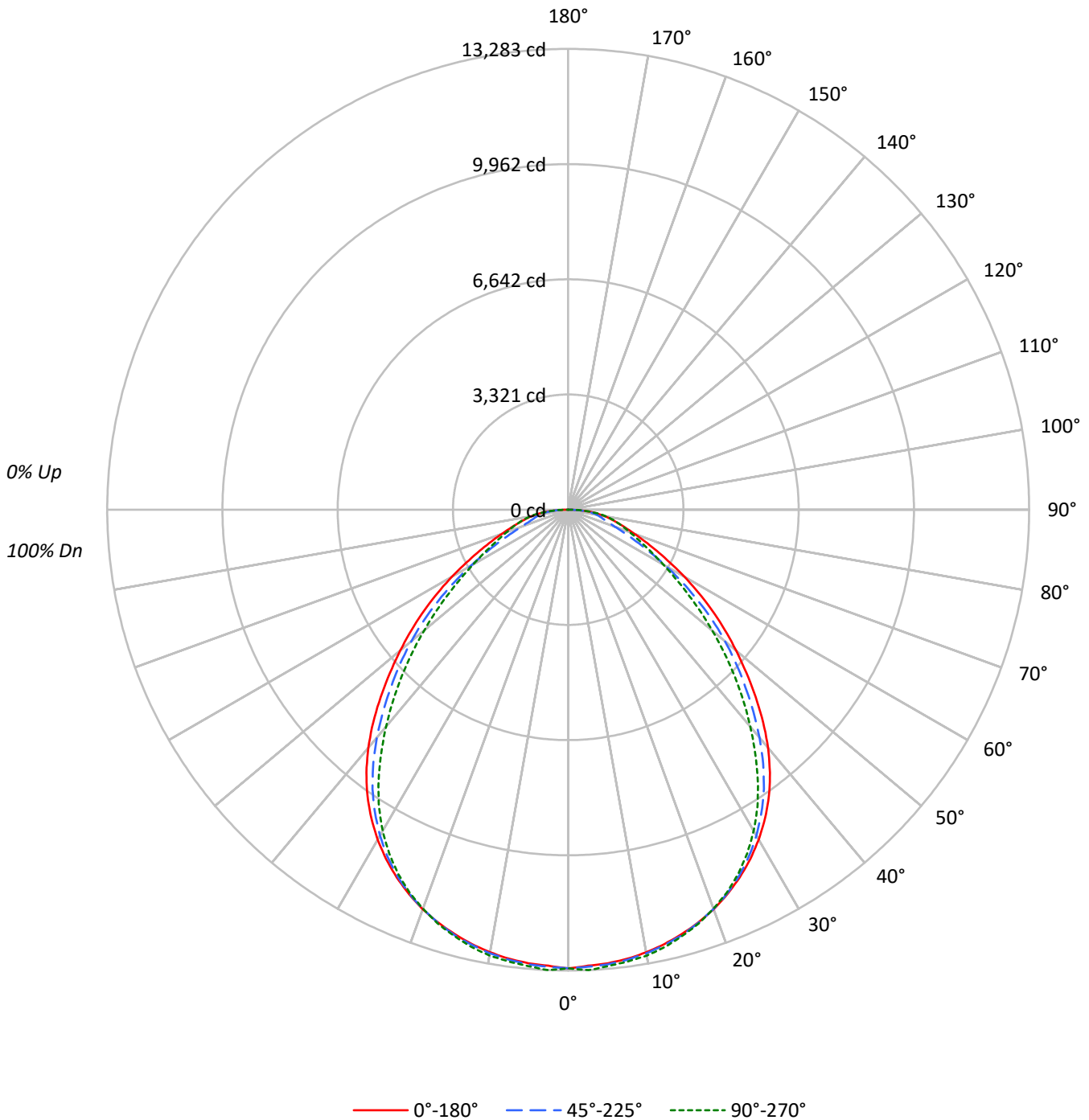
Lumens per Lamp: N/A
Luminaire Lumens: 30367.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
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°	17786	17786	17786
5°	17723	17764	17836
10°	17698	17739	17829
15°	17639	17674	17716
20°	17547	17534	17521
25°	17357	17297	17199
30°	17057	16851	16605
35°	16561	16145	15648
40°	15737	15062	14339
45°	14538	13727	12896
50°	13216	12361	11344
55°	11884	10701	9806
60°	10399	8746	8509
65°	8966	6877	7680
70°	7994	5613	7401
75°	7657	5479	7735
80°	8282	6481	8618
85°	9298	7802	9391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1252.9	4.1
10°-20°	3585.6	11.8
20°-30°	5363.7	17.7
30°-40°	6119.5	20.2
40°-50°	5570.5	18.3
50°-60°	4090.3	13.5
60°-70°	2415.2	8.0
70°-80°	1384.1	4.6
80°-90°	585.2	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°	10202.2	33.6
0°-40°	16321.7	53.7
0°-60°	25982.5	85.6
0°-90°	30367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13219	13219	13219	13219	13219	
5°	13122	13204	13152	13204	13206	###
15°	12663	12733	12688	12733	12718	3573
25°	11691	11733	11651	11646	11585	5382
35°	10082	10033	9829	9661	9526	6282
45°	7640	7596	7214	6891	6777	5888
55°	5066	4832	4562	4231	4180	4530
65°	2816	2458	2160	2311	2412	2834
75°	1473	1263	1054	1375	1488	1588
85°	602	556	505	596	608	630
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13219.3	13219.3	13219.3	13219.3	13219.3
2.5°	13158.1	13234.2	13186.5	13238.6	13283.4
5°	13122.4	13204.4	13152.2	13204.4	13205.8
7.5°	13056.8	13132.8	13082.1	13138.8	13132.8
10°	12953.9	13029.9	12983.7	13044.8	13049.3
12.5°	12822.7	12895.8	12848.0	12918.1	12906.2
15°	12663.2	12733.3	12688.5	12733.3	12718.3
17.5°	12475.3	12539.4	12481.3	12530.5	12505.2
20°	12254.7	12308.4	12245.7	12292.0	12236.8
22.5°	11990.8	12038.5	11972.9	11998.3	11941.6
25°	11691.2	11732.9	11650.9	11646.4	11585.3
27.5°	11357.2	11379.6	11275.2	11239.4	11169.4
30°	10978.5	10984.5	10845.9	10778.8	10687.8
32.5°	10553.6	10538.7	10361.3	10261.4	10149.6
35°	10082.5	10033.3	9829.1	9660.6	9526.5
37.5°	9550.3	9472.8	9228.3	8979.3	8851.1
40°	8959.9	8869.0	8575.3	8266.7	8163.8
42.5°	8317.4	8239.9	7894.0	7572.0	7470.6
45°	7640.5	7595.8	7214.2	6890.7	6777.4
47.5°	6963.7	6930.9	6558.2	6228.7	6091.6
50°	6313.7	6242.1	5905.2	5544.4	5419.2
52.5°	5683.1	5537.0	5240.3	4870.6	4778.1
55°	5065.9	4831.8	4562.0	4231.0	4180.3
57.5°	4454.6	4152.0	3889.6	3642.1	3640.6
60°	3864.3	3518.4	3250.0	3120.3	3162.1
62.5°	3311.2	2956.3	2665.6	2674.6	2750.6
65°	2816.2	2458.4	2160.2	2310.8	2412.2
67.5°	2391.3	2049.9	1747.3	2027.5	2124.4
70°	2032.0	1723.4	1426.7	1777.1	1881.4
72.5°	1729.4	1470.0	1203.1	1568.4	1674.2
75°	1472.9	1262.7	1054.0	1374.6	1487.9
77.5°	1264.2	1077.9	945.2	1189.7	1307.5
80°	1068.9	904.9	836.4	1010.8	1112.2
82.5°	846.8	733.5	693.2	821.5	873.6
85°	602.3	556.1	505.4	596.3	608.3
87.5°	331.0	342.9	283.3	342.9	344.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)