

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-CLI-UNV-L740-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 (P23766)
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-CLI-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

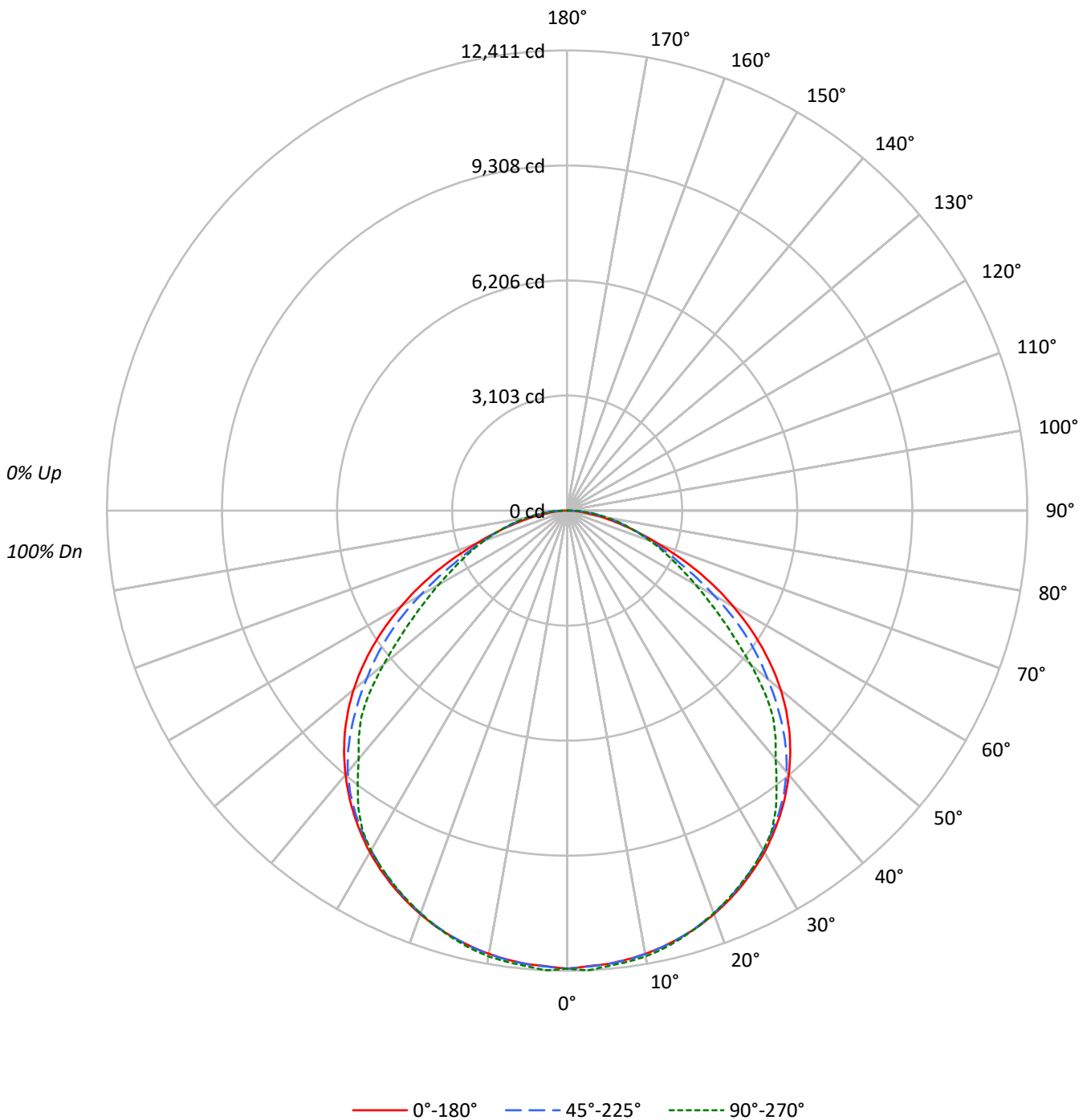
Lumens per Lamp: N/A
Luminaire Lumens: 33194.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	16624	16624	16624
5°	16579	16591	16665
10°	16588	16596	16683
15°	16590	16588	16627
20°	16586	16548	16552
25°	16561	16499	16479
30°	16534	16435	16444
35°	16457	16354	16123
40°	16339	16173	15357
45°	16132	15615	14932
50°	15744	14784	13524
55°	15027	13827	11958
60°	13945	12337	10784
65°	12395	10681	9916
70°	10287	9546	9347
75°	8320	8736	8844
80°	6608	8355	8320
85°	5175	8976	8563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1171.7	3.5
10°-20°	3370.2	10.2
20°-30°	5139.0	15.5
30°-40°	6217.5	18.7
40°-50°	6297.7	19.0
50°-60°	5205.2	15.7
60°-70°	3438.0	10.4
70°-80°	1792.7	5.4
80°-90°	562.0	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°	9680.9	29.2
0°-40°	15898.4	47.9
0°-60°	27401.3	82.5
0°-90°	33194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12355	12355	12355	12355	12355	
5°	12275	12349	12284	12337	12339	###
15°	11910	11971	11909	11946	11937	3363
25°	11155	11200	11114	11142	11100	5144
35°	10019	10032	9957	9943	9816	6267
45°	8478	8456	8206	7951	7848	6528
55°	6406	6311	5894	5322	5098	5710
65°	3893	3781	3355	3137	3115	3845
75°	1600	1628	1680	1703	1701	1743
85°	335	432	581	577	555	407
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12355.0	12355.0	12355.0	12355.0	12355.0
2.5°	12303.1	12375.8	12314.9	12368.3	12411.4
5°	12274.9	12349.1	12283.8	12337.2	12338.7
7.5°	12220.0	12294.2	12227.4	12280.8	12279.4
10°	12141.4	12211.1	12147.3	12211.1	12211.1
12.5°	12034.6	12102.9	12040.6	12099.9	12091.0
15°	11910.0	11970.8	11908.6	11945.6	11936.7
17.5°	11763.2	11818.1	11748.4	11779.5	11761.7
20°	11583.7	11634.2	11557.0	11597.1	11560.0
22.5°	11382.0	11429.5	11350.9	11380.5	11339.0
25°	11155.1	11199.6	11113.6	11141.7	11100.2
27.5°	10910.4	10950.4	10854.0	10888.1	10855.5
30°	10641.9	10661.2	10578.1	10622.6	10584.1
32.5°	10342.3	10354.2	10281.5	10321.5	10256.3
35°	10019.0	10032.3	9956.7	9943.3	9815.8
37.5°	9673.4	9679.3	9608.1	9488.0	9277.4
40°	9302.6	9299.6	9207.7	8930.3	8743.4
42.5°	8906.6	8905.1	8743.4	8427.5	8320.7
45°	8477.9	8455.7	8206.5	7951.4	7847.6
47.5°	8018.1	7994.4	7645.9	7442.7	7206.8
50°	7521.3	7479.7	7063.0	6785.6	6460.8
52.5°	6985.8	6922.1	6497.9	6049.9	5742.9
55°	6405.9	6311.0	5894.2	5321.7	5097.7
57.5°	5802.2	5661.3	5256.4	4698.8	4516.3
60°	5182.3	5025.1	4584.5	4126.2	4007.6
62.5°	4544.5	4388.8	3939.4	3593.8	3528.5
65°	3893.4	3780.7	3355.0	3137.0	3114.7
67.5°	3225.9	3185.9	2861.1	2749.8	2740.9
70°	2614.9	2607.5	2426.5	2370.1	2376.1
72.5°	2089.8	2080.9	2054.2	2026.0	2027.5
75°	1600.4	1628.5	1680.5	1702.7	1701.2
77.5°	1194.0	1251.8	1361.6	1406.1	1398.7
80°	852.8	938.9	1078.3	1119.8	1073.8
82.5°	568.1	658.5	823.2	829.1	792.0
85°	335.2	431.6	581.4	577.0	554.7
87.5°	166.1	259.6	348.6	333.7	318.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)