

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-CLWG-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32571.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

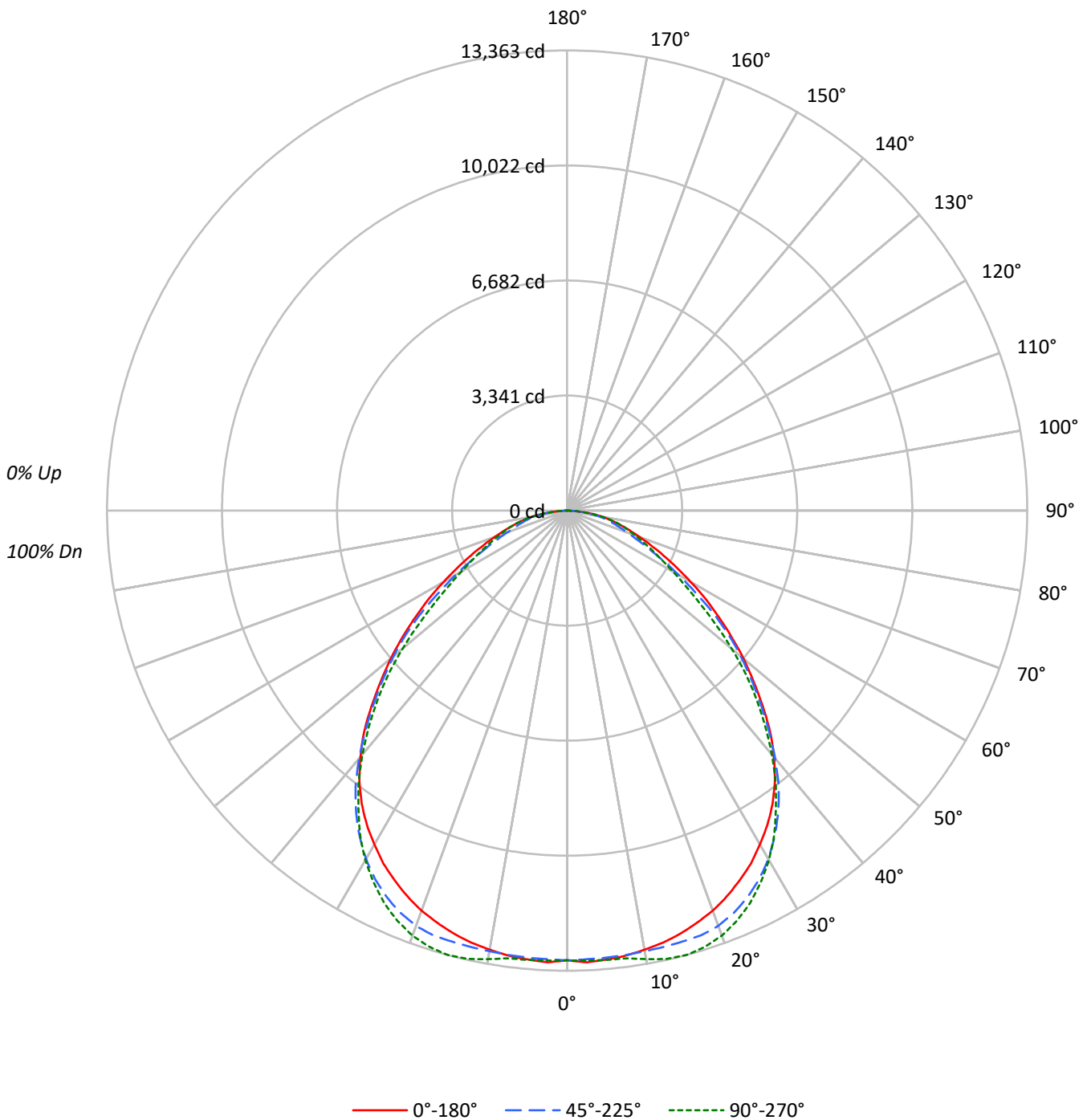
Input Watts (W): 211.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88				86	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73	
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65				63	
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57				55	
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50				48	
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44				42	
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40				38	
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36				34	
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32				31	
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30				28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17572	17572	17572
5°	17676	17603	17689
10°	17691	17751	18069
15°	17713	18047	18614
20°	17701	18377	18806
25°	17593	18394	18664
30°	17391	18150	18208
35°	17080	17562	17352
40°	16407	16507	16247
45°	15287	15127	14819
50°	13997	13771	13066
55°	12572	12106	11047
60°	11150	10017	9536
65°	9824	8322	8655
70°	8786	7222	8243
75°	8230	7022	8335
80°	8013	7100	7935
85°	6396	5616	5825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1244.1	3.8
10°-20°	3664.6	11.3
20°-30°	5637.5	17.3
30°-40°	6579.3	20.2
40°-50°	6113.9	18.8
50°-60°	4531.9	13.9
60°-70°	2770.4	8.5
70°-80°	1578.0	4.8
80°-90°	451.3	1.4
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°	10546.2	32.4
0°-40°	17125.5	52.6
0°-60°	27771.3	85.3
0°-90°	32571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13060	13060	13060	13060	13060	
5°	13087	13026	13033	13023	13097	###
15°	12716	12710	12956	13212	13363	3589
25°	11851	11942	12390	12494	12572	5459
35°	10399	10480	10692	10604	10564	6479
45°	8034	8081	7950	7825	7788	6191
55°	5359	5225	5161	4794	4709	4810
65°	3086	2803	2614	2685	2718	3088
75°	1583	1486	1351	1539	1603	1694
85°	414	404	364	377	377	478
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13060.0	13060.0	13060.0	13060.0	13060.0
2.5°	13130.8	13056.7	13043.2	13012.9	13080.2
5°	13087.0	13026.3	13033.1	13023.0	13097.1
7.5°	13036.5	12992.7	13019.6	13016.2	13113.9
10°	12948.9	12925.3	12992.7	13066.8	13225.1
12.5°	12851.2	12827.6	12975.8	13164.5	13336.3
15°	12716.4	12709.7	12955.6	13211.6	13363.2
17.5°	12548.0	12558.1	12932.0	13151.0	13285.7
20°	12362.7	12379.6	12834.3	13012.9	13134.1
22.5°	12123.6	12180.8	12645.7	12793.9	12888.2
25°	11850.7	11941.7	12389.7	12494.1	12571.6
27.5°	11557.6	11648.6	12073.0	12126.9	12170.7
30°	11193.8	11321.8	11682.3	11689.0	11719.3
32.5°	10823.3	10937.8	11214.0	11183.7	11190.5
35°	10398.8	10479.7	10691.9	10604.3	10563.9
37.5°	9910.4	9954.2	10088.9	9957.6	9950.8
40°	9341.1	9398.4	9398.4	9216.5	9250.2
42.5°	8734.8	8755.0	8670.8	8499.0	8525.9
45°	8034.1	8081.3	7949.9	7825.2	7788.2
47.5°	7340.2	7387.3	7249.2	7104.4	7040.4
50°	6686.7	6663.1	6578.9	6333.0	6242.0
52.5°	6009.6	5935.5	5901.8	5541.3	5436.9
55°	5359.4	5224.7	5160.7	4793.5	4709.3
57.5°	4756.5	4513.9	4392.6	4106.3	4072.6
60°	4143.4	3870.5	3722.3	3537.0	3543.8
62.5°	3587.6	3301.2	3122.7	3068.8	3092.4
65°	3085.6	2802.7	2614.0	2684.8	2718.5
67.5°	2630.9	2398.4	2186.2	2351.3	2385.0
70°	2233.4	2048.1	1835.9	2078.4	2095.3
72.5°	1903.3	1751.7	1573.1	1802.2	1839.3
75°	1583.2	1485.5	1350.8	1539.4	1603.4
77.5°	1303.6	1226.2	1148.7	1263.2	1334.0
80°	1034.2	956.7	916.3	976.9	1024.1
82.5°	731.0	680.5	640.0	683.8	707.4
85°	414.3	404.2	363.8	377.3	377.3
87.5°	94.3	107.8	121.3	111.2	94.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)