

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-N-CLWG-UNV-L750-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 (P33344)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36HE-N-CLWG-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

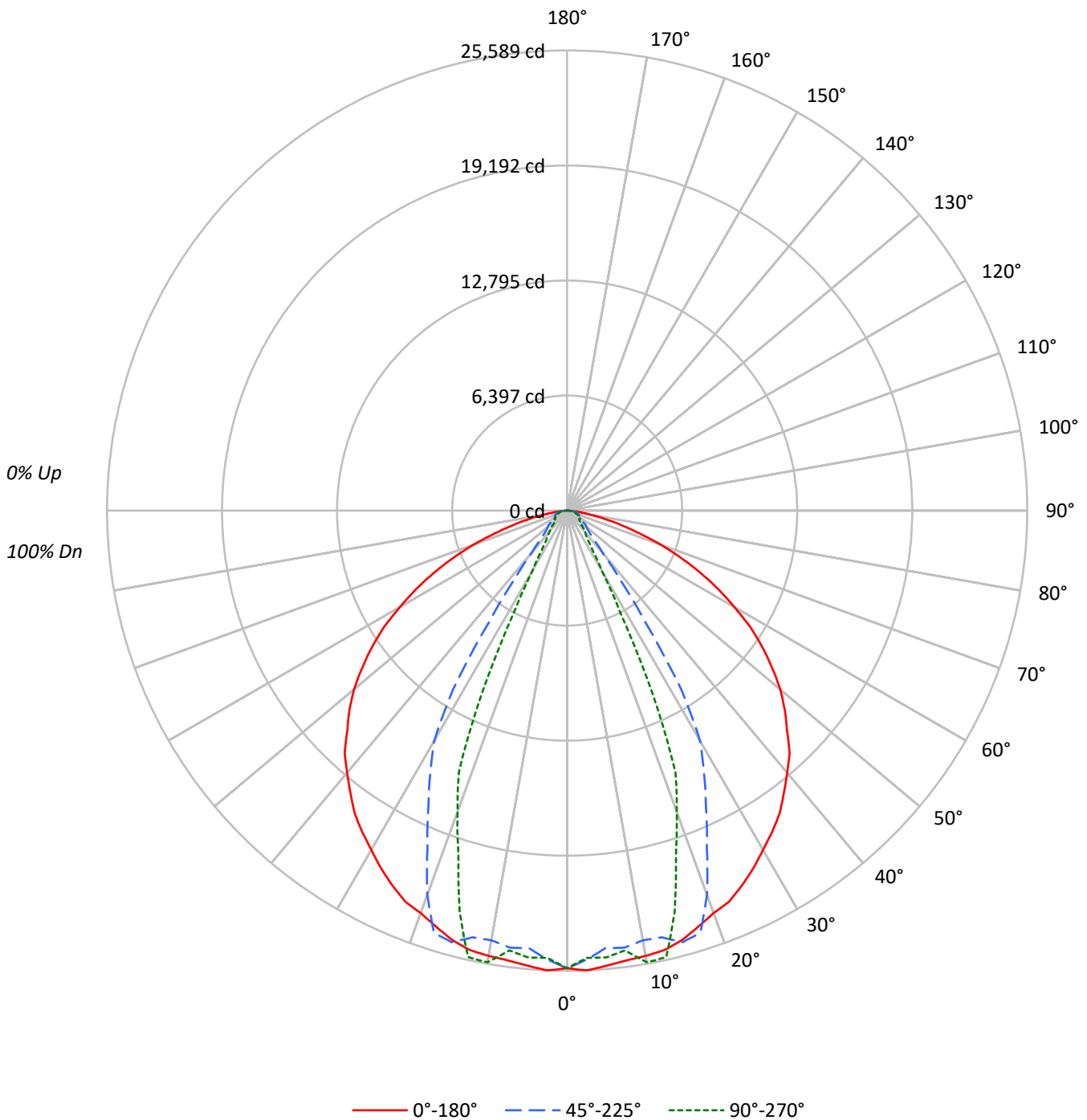
Lumens per Lamp: N/A  
Luminaire Lumens: 34214.0 lumens  
Efficiency: N/A  
Efficacy: 161.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 211.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

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

	0°	45°	90°
0°	34243	34243	34243
5°	34299	32993	33688
10°	34349	33152	34853
15°	34426	34605	32163
20°	34100	32548	25529
25°	34149	27134	16676
30°	33843	22987	5991
35°	33807	12452	3370
40°	33425	5429	2639
45°	32908	3355	2069
50°	32395	2923	1953
55°	31122	2535	1911
60°	28875	2271	2054
65°	25954	2566	2244
70°	21767	2760	2314
75°	16273	3148	2506
80°	10220	3655	2858
85°	6805	4580	4184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2358.9	6.9
10°-20°	6660.9	19.5
20°-30°	8156.5	23.8
30°-40°	6405.3	18.7
40°-50°	4749.9	13.9
50°-60°	2891.7	8.5
60°-70°	1732.1	5.1
70°-80°	950.4	2.8
80°-90°	308.2	0.9
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°	17176.3	50.2
0°-40°	23581.6	68.9
0°-60°	31223.3	91.3
0°-90°	34214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34214.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25450	25450	25450	25450	25450	
5°	25395	24704	24428	24697	24942	###
15°	24714	24037	24843	23840	23090	6958
25°	23002	23074	18277	14336	11233	10589
35°	20582	18723	7581	2537	2051	12843
45°	17294	12418	1763	1336	1087	13374
55°	13267	3422	1081	914	815	11806
65°	8152	1008	806	758	705	8054
75°	3130	636	606	527	482	3389
85°	441	346	297	273	271	538
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25450.1	25450.1	25450.1	25450.1	25450.1
2.5°	25589.0	25244.3	24980.1	24832.6	24892.6
5°	25395.2	24704.0	24427.8	24697.1	24942.4
7.5°	25227.1	24199.7	24511.9	24535.9	24664.5
10°	25141.4	24151.7	24264.9	24798.3	25510.1
12.5°	25028.1	24263.2	24302.6	25029.9	25431.2
15°	24714.3	24036.8	24842.9	23839.5	23090.0
17.5°	24256.3	23508.5	24616.5	21119.2	20100.4
20°	23815.5	22933.9	22731.5	18812.3	17829.5
22.5°	23530.8	22846.4	20306.2	16762.6	15747.2
25°	23002.5	23074.5	18277.1	14335.6	11232.8
27.5°	22421.1	22537.7	16483.0	9560.5	6435.4
30°	21783.0	21916.8	14795.3	5649.9	3855.8
32.5°	21205.0	20450.3	11816.0	3524.7	2680.9
35°	20582.4	18723.1	7581.2	2536.8	2051.4
37.5°	19798.5	16908.4	4799.1	2006.8	1722.1
40°	19030.1	15279.0	3090.8	1713.5	1502.5
42.5°	18311.4	13936.0	2248.6	1497.4	1356.7
45°	17294.3	12418.0	1763.2	1336.1	1087.4
47.5°	16414.4	10637.6	1542.0	1130.3	938.2
50°	15476.2	8133.5	1396.2	1005.1	933.1
52.5°	14363.1	5320.5	1289.8	962.2	871.3
55°	13267.0	3421.8	1080.6	914.2	814.7
57.5°	12083.6	2169.7	953.6	886.8	850.7
60°	10730.3	1463.1	843.9	840.4	763.3
62.5°	9478.2	1202.4	814.7	806.1	722.1
65°	8152.3	1008.5	806.1	758.1	704.9
67.5°	6828.2	864.5	729.0	692.9	646.6
70°	5533.2	790.7	701.5	686.1	588.3
72.5°	4202.2	651.8	622.6	581.5	488.8
75°	3130.2	636.3	605.5	526.6	482.0
77.5°	2118.3	586.6	550.6	471.7	435.7
80°	1319.0	538.6	471.7	413.4	368.8
82.5°	783.8	449.4	387.6	341.3	312.2
85°	440.8	346.5	296.7	272.7	271.0
87.5°	94.3	125.2	99.5	94.3	66.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)