

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-LD5-36SE-W-CLWG-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36SE-W-CLWG-UNV-L840-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**

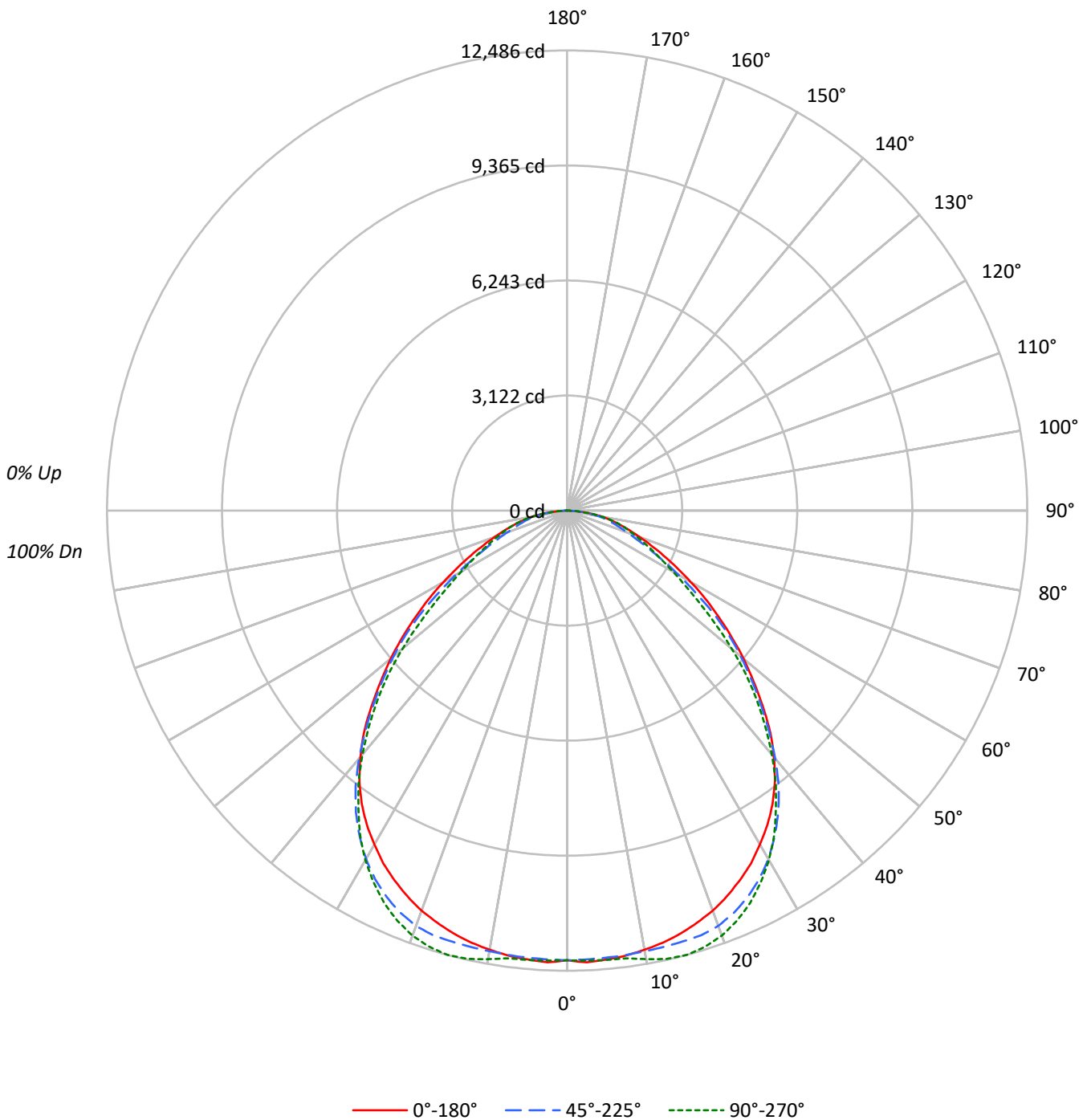
Lumens per Lamp: N/A  
Luminaire Lumens: 30434.0 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 232  
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	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°	16419	16419	16419
5°	16516	16448	16529
10°	16531	16586	16883
15°	16551	16863	17393
20°	16540	17171	17572
25°	16439	17187	17439
30°	16250	16959	17013
35°	15960	16410	16213
40°	15330	15424	15181
45°	14284	14135	13847
50°	13078	12867	12209
55°	11747	11312	10322
60°	10418	9359	8911
65°	9179	7776	8087
70°	8209	6748	7702
75°	7691	6562	7789
80°	7487	6633	7414
85°	5978	5247	5442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1162.5	3.8
10°-20°	3424.2	11.3
20°-30°	5267.6	17.3
30°-40°	6147.6	20.2
40°-50°	5712.8	18.8
50°-60°	4234.5	13.9
60°-70°	2588.6	8.5
70°-80°	1474.5	4.8
80°-90°	421.7	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°	9854.3	32.4
0°-40°	16001.9	52.6
0°-60°	25949.2	85.3
0°-90°	30434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12203	12203	12203	12203	12203	
5°	12228	12172	12178	12168	12238	###
15°	11882	11876	12106	12345	12486	3354
25°	11073	11158	11577	11674	11747	5101
35°	9717	9792	9990	9909	9871	6054
45°	7507	7551	7428	7312	7277	5785
55°	5008	4882	4822	4479	4400	4494
65°	2883	2619	2442	2509	2540	2885
75°	1479	1388	1262	1438	1498	1583
85°	387	378	340	352	352	446
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12203.2	12203.2	12203.2	12203.2	12203.2
2.5°	12269.3	12200.0	12187.4	12159.1	12222.0
5°	12228.3	12171.7	12178.0	12168.5	12237.8
7.5°	12181.1	12140.2	12165.4	12162.2	12253.5
10°	12099.3	12077.3	12140.2	12209.5	12357.4
12.5°	12008.0	11986.0	12124.5	12300.7	12461.3
15°	11882.1	11875.8	12105.6	12344.8	12486.4
17.5°	11724.7	11734.2	12083.5	12288.1	12414.0
20°	11551.6	11567.3	11992.3	12159.1	12272.4
22.5°	11328.1	11381.6	11816.0	11954.5	12042.6
25°	11073.2	11158.2	11576.8	11674.4	11746.8
27.5°	10799.3	10884.3	11280.9	11331.3	11372.2
30°	10459.4	10579.0	10915.8	10922.1	10950.4
32.5°	10113.2	10220.2	10478.3	10450.0	10456.3
35°	9716.6	9792.1	9990.4	9908.6	9870.8
37.5°	9260.2	9301.1	9427.0	9304.2	9297.9
40°	8728.2	8781.7	8781.7	8611.8	8643.2
42.5°	8161.7	8180.6	8101.9	7941.3	7966.5
45°	7507.0	7551.0	7428.3	7311.8	7277.2
47.5°	6858.6	6902.6	6773.6	6638.2	6578.4
50°	6247.9	6225.9	6147.2	5917.4	5832.5
52.5°	5615.3	5546.0	5514.6	5177.8	5080.2
55°	5007.8	4881.9	4822.1	4479.0	4400.3
57.5°	4444.4	4217.8	4104.4	3836.9	3805.4
60°	3871.5	3616.6	3478.1	3305.0	3311.3
62.5°	3352.2	3084.6	2917.8	2867.4	2889.5
65°	2883.2	2618.8	2442.5	2508.6	2540.1
67.5°	2458.3	2241.1	2042.8	2197.0	2228.5
70°	2086.8	1913.7	1715.4	1942.1	1957.8
72.5°	1778.4	1636.7	1469.9	1684.0	1718.6
75°	1479.4	1388.1	1262.2	1438.4	1498.2
77.5°	1218.1	1145.7	1073.3	1180.3	1246.4
80°	966.3	893.9	856.1	912.8	956.9
82.5°	683.0	635.8	598.0	639.0	661.0
85°	387.2	377.7	339.9	352.5	352.5
87.5°	88.1	100.7	113.3	103.9	88.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)