

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-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 (P23767)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36HE-N-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

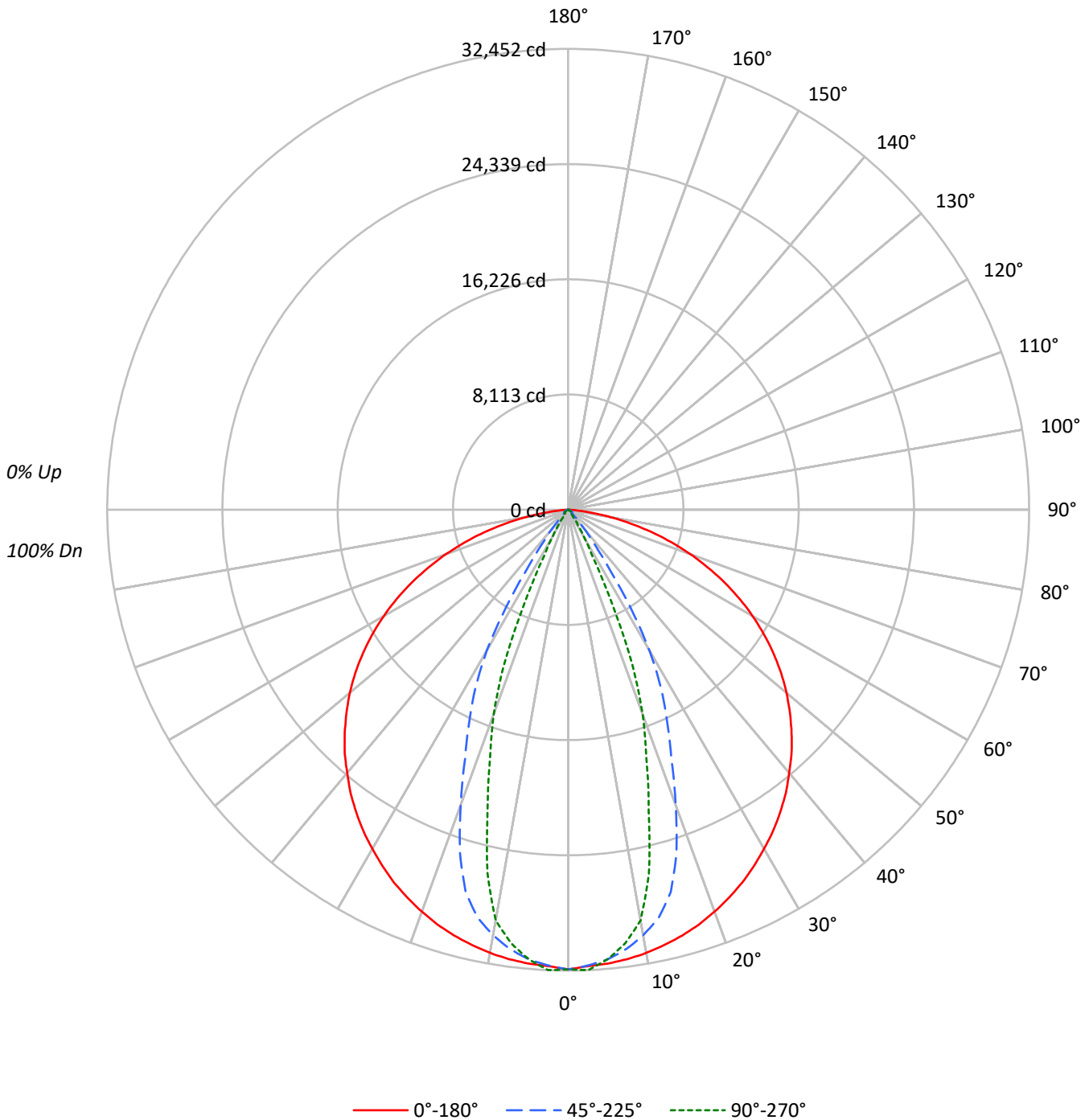
Lumens per Lamp: N/A  
Luminaire Lumens: 34409.0 lumens  
Efficiency: N/A  
Efficacy: 162.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

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

	0°	45°	90°
0°	43558	43558	43558
5°	43325	42943	42924
10°	43298	41566	40108
15°	43237	38833	30524
20°	43136	31657	21972
25°	43027	24478	10824
30°	42836	17790	3510
35°	42735	7892	903
40°	42511	3205	609
45°	42321	900	648
50°	41991	638	719
55°	41387	759	307
60°	40365	846	186
65°	38705	539	221
70°	35957	479	273
75°	31456	360	376
80°	23520	442	537
85°	11649	571	713



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3004.3	8.7
10°-20°	7512.3	21.8
20°-30°	8136.9	23.6
30°-40°	6025.8	17.5
40°-50°	4340.1	12.6
50°-60°	2687.3	7.8
60°-70°	1652.7	4.8
70°-80°	871.2	2.5
80°-90°	178.3	0.5
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°	18653.5	54.2
0°-40°	24679.3	71.7
0°-60°	31706.8	92.1
0°-90°	34409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32374	32374	32374	32374	32374	
5°	32078	32196	31794	31818	31781	###
15°	31040	30319	27878	23708	21914	8762
25°	28982	26548	16488	10372	7291	13354
35°	26018	18342	4805	1130	550	16277
45°	22242	10334	473	342	340	17153
55°	17643	2128	323	293	131	15750
65°	12157	225	169	108	69	11995
75°	6051	52	69	91	72	6391
85°	755	20	37	55	46	###
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32373.6	32373.6	32373.6	32373.6	32373.6
2.5°	32165.6	32370.5	32128.7	32308.9	32452.1
5°	32077.9	32196.4	31794.5	31817.6	31780.6
7.5°	31923.9	31896.1	31220.0	30924.4	30795.0
10°	31691.3	31508.0	30423.8	29806.3	29356.6
12.5°	31391.0	30981.3	29430.5	27466.9	26247.2
15°	31039.9	30319.1	27878.1	23707.6	21913.5
17.5°	30621.0	29599.9	25340.1	19869.8	18268.2
20°	30126.6	28797.5	22109.1	16905.2	15345.1
22.5°	29575.3	27821.1	18970.4	14049.9	11824.6
25°	28982.3	26547.5	16487.9	10372.3	7290.6
27.5°	28297.0	24910.4	14159.3	6109.4	3720.8
30°	27571.7	22939.2	11450.3	3286.5	2259.3
32.5°	26840.1	20704.5	8102.2	2052.9	1281.3
35°	26017.7	18342.1	4805.0	1130.4	549.8
37.5°	25159.9	16176.8	2839.9	514.4	352.7
40°	24203.5	14197.8	1825.0	341.9	346.5
42.5°	23279.5	12352.8	1027.2	337.3	343.4
45°	22241.5	10333.8	472.8	341.9	340.4
47.5°	21168.1	8240.8	306.5	345.0	345.0
50°	20060.8	5892.3	304.9	352.7	343.4
52.5°	18891.9	3676.1	317.3	351.1	281.8
55°	17642.9	2128.4	323.4	292.6	130.9
57.5°	16349.3	1255.1	326.5	167.9	73.9
60°	15000.2	694.6	314.2	124.7	69.3
62.5°	13609.5	331.1	247.9	117.0	67.8
65°	12157.2	224.8	169.4	107.8	69.3
67.5°	10649.5	174.0	134.0	101.6	70.8
70°	9140.2	129.4	121.7	101.6	69.3
72.5°	7606.3	87.8	101.6	103.2	69.3
75°	6050.9	52.4	69.3	90.9	72.4
77.5°	4509.3	32.3	53.9	93.9	87.8
80°	3035.5	27.7	57.0	87.8	69.3
82.5°	1781.8	24.6	55.4	67.8	55.4
85°	754.6	20.0	37.0	55.4	46.2
87.5°	141.7	16.9	29.3	44.7	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)