

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-L735-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-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

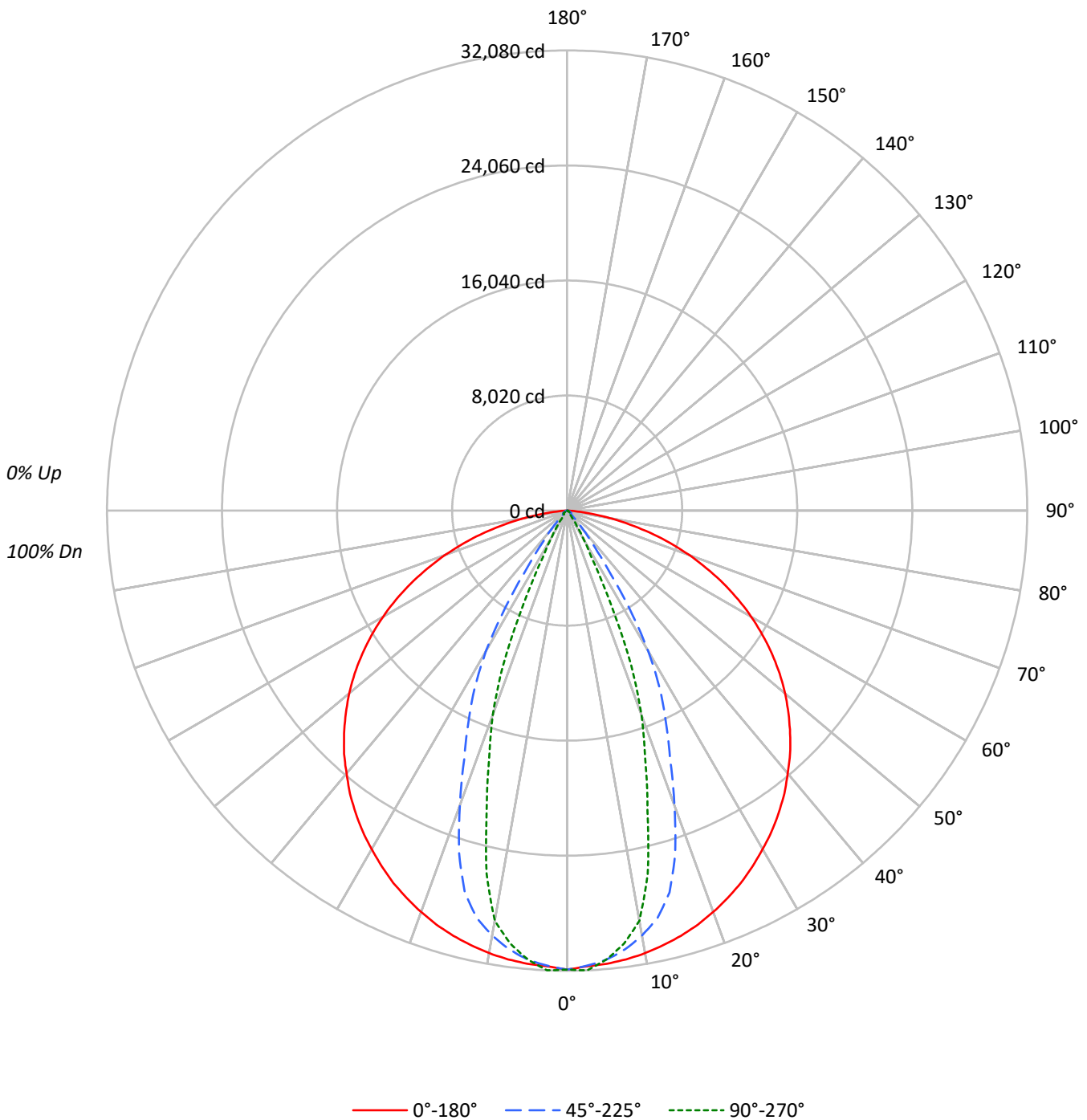
Lumens per Lamp: N/A
Luminaire Lumens: 34015.0 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	43060	43060	43060
5°	42829	42451	42432
10°	42802	41091	39649
15°	42742	38388	30175
20°	42642	31294	21720
25°	42534	24197	10700
30°	42346	17586	3470
35°	42246	7802	893
40°	42025	3169	602
45°	41837	889	640
50°	41511	631	711
55°	40913	750	304
60°	39903	836	184
65°	38262	533	218
70°	35546	473	269
75°	31096	356	372
80°	23251	436	531
85°	11517	563	706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2969.9	8.7
10°-20°	7426.3	21.8
20°-30°	8043.8	23.6
30°-40°	5956.8	17.5
40°-50°	4290.4	12.6
50°-60°	2656.6	7.8
60°-70°	1633.8	4.8
70°-80°	861.3	2.5
80°-90°	176.3	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°	18439.9	54.2
0°-40°	24396.7	71.7
0°-60°	31343.7	92.1
0°-90°	34015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32003	32003	32003	32003	32003	
5°	31711	31828	31430	31453	31417	###
15°	30684	29972	27559	23436	21663	8662
25°	28650	26244	16299	10254	7207	13201
35°	25720	18132	4750	1118	544	16091
45°	21987	10216	467	338	336	16956
55°	17441	2104	320	289	129	15570
65°	12018	222	168	107	68	11858
75°	5982	52	68	90	72	6318
85°	746	20	36	55	46	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32002.9	32002.9	32002.9	32002.9	32002.9
2.5°	31797.3	31999.8	31760.8	31938.9	32080.5
5°	31710.6	31827.8	31430.4	31453.3	31416.7
7.5°	31558.3	31530.9	30862.6	30570.3	30442.4
10°	31328.4	31147.3	30075.5	29465.0	29020.4
12.5°	31031.6	30626.6	29093.5	27152.4	25946.7
15°	30684.4	29971.9	27558.9	23436.2	21662.6
17.5°	30270.3	29261.0	25050.0	19642.3	18059.0
20°	29781.6	28467.8	21855.9	16711.6	15169.4
22.5°	29236.6	27502.6	18753.2	13889.1	11689.2
25°	28650.5	26243.5	16299.1	10253.5	7207.2
27.5°	27973.0	24625.2	13997.2	6039.5	3678.2
30°	27255.9	22676.5	11319.2	3248.9	2233.4
32.5°	26532.8	20467.5	8009.5	2029.4	1266.7
35°	25719.8	18132.1	4750.0	1117.5	543.5
37.5°	24871.8	15991.5	2807.3	508.5	348.6
40°	23926.4	14035.2	1804.1	338.0	342.5
42.5°	23012.9	12211.4	1015.5	333.4	339.5
45°	21986.8	10215.5	467.4	338.0	336.5
47.5°	20925.7	8146.5	303.0	341.0	341.0
50°	19831.1	5824.8	301.4	348.6	339.5
52.5°	18675.6	3634.0	313.6	347.1	278.6
55°	17440.9	2104.0	319.7	289.3	129.4
57.5°	16162.0	1240.8	322.8	165.9	73.1
60°	14828.4	686.6	310.6	123.3	68.5
62.5°	13453.7	327.3	245.1	115.7	67.0
65°	12018.0	222.3	167.5	106.6	68.5
67.5°	10527.6	172.0	132.5	100.5	70.0
70°	9035.6	127.9	120.3	100.5	68.5
72.5°	7519.2	86.8	100.5	102.0	68.5
75°	5981.6	51.8	68.5	89.8	71.6
77.5°	4457.7	32.0	53.3	92.9	86.8
80°	3000.7	27.4	56.3	86.8	68.5
82.5°	1761.4	24.4	54.8	67.0	54.8
85°	746.0	19.8	36.5	54.8	45.7
87.5°	140.1	16.7	28.9	44.2	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)