

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-CL-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-CL-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

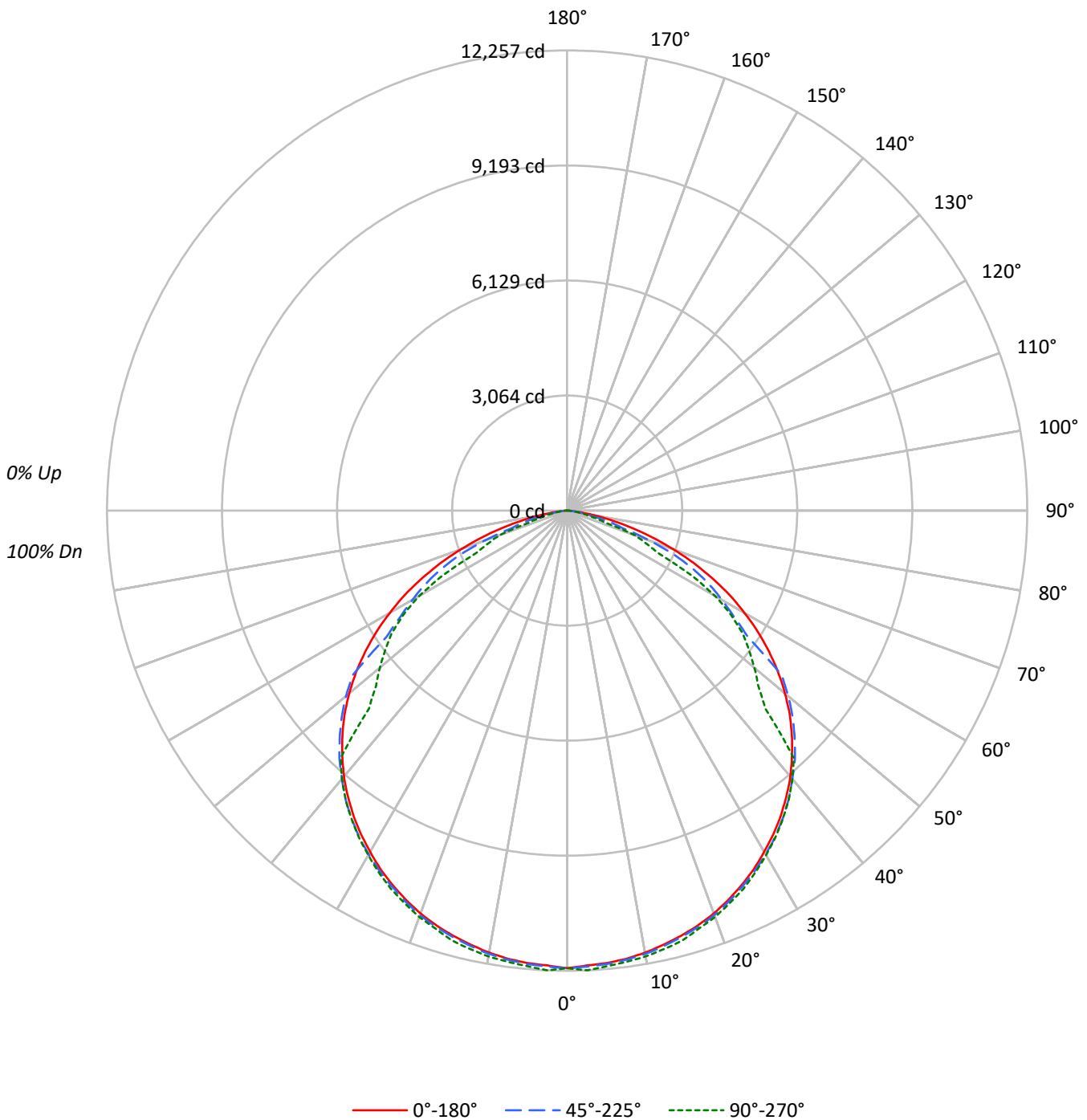
Lumens per Lamp: N/A
Luminaire Lumens: 32944.0 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16396	16396	16396
5°	16336	16372	16453
10°	16335	16381	16477
15°	16334	16383	16516
20°	16354	16416	16492
25°	16335	16397	16496
30°	16304	16424	16461
35°	16297	16445	16458
40°	16246	16389	16389
45°	16107	16301	14204
50°	15858	16097	13628
55°	15408	13779	13386
60°	14685	12809	12230
65°	13581	11890	8470
70°	11825	9251	7547
75°	9341	6209	4057
80°	6013	2966	2529
85°	2473	1809	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1155.9	3.5
10°-20°	3331.8	10.1
20°-30°	5108.2	15.5
30°-40°	6260.8	19.0
40°-50°	6436.6	19.5
50°-60°	5493.4	16.7
60°-70°	3631.7	11.0
70°-80°	1345.5	4.1
80°-90°	179.9	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°	9595.9	29.1
0°-40°	15856.8	48.1
0°-60°	27786.8	84.3
0°-90°	32944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12186	12186	12186	12186	12186	
5°	12095	12180	12122	12170	12181	###
15°	11726	11797	11762	11850	11856	3312
25°	11003	11061	11045	11144	11112	5073
35°	9922	9990	10012	10074	10020	6206
45°	8465	8549	8567	8554	7465	6523
55°	6568	6689	5874	5704	5706	5861
65°	4266	4301	3734	3071	2660	4206
75°	1797	1574	1194	803	780	1928
85°	160	114	117	128	129	265
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12185.9	12185.9	12185.9	12185.9	12185.9
2.5°	12126.5	12202.2	12157.7	12214.1	12257.1
5°	12095.4	12179.9	12122.1	12169.5	12181.4
7.5°	12041.9	12120.6	12067.2	12129.5	12120.6
10°	11955.9	12027.1	11990.0	12055.3	12059.7
12.5°	11846.1	11917.3	11883.2	11963.3	11961.8
15°	11725.9	11797.1	11761.5	11850.5	11856.5
17.5°	11585.0	11650.2	11623.5	11705.1	11672.5
20°	11421.7	11478.1	11464.8	11541.9	11518.2
22.5°	11221.4	11279.3	11265.9	11355.0	11319.4
25°	11003.3	11061.2	11044.9	11144.3	11111.6
27.5°	10767.4	10822.3	10820.8	10914.3	10863.9
30°	10494.4	10567.1	10571.6	10654.7	10595.3
32.5°	10224.4	10292.6	10311.9	10372.7	10322.3
35°	9921.7	9989.9	10012.2	10074.5	10019.6
37.5°	9595.3	9653.1	9693.2	9739.2	9696.2
40°	9249.6	9301.5	9331.2	9387.5	9331.2
42.5°	8863.8	8938.0	8979.5	9019.6	8927.6
45°	8464.7	8549.2	8567.0	8553.7	7464.6
47.5°	8041.8	8133.8	8144.2	7102.6	6902.3
50°	7575.9	7691.6	7690.2	6564.0	6510.6
52.5°	7090.7	7202.0	7197.6	6142.6	6107.0
55°	6568.5	6688.6	5874.1	5703.5	5706.4
57.5°	6035.8	6121.9	5270.2	5277.6	5179.7
60°	5457.2	5538.8	4759.8	4713.8	4544.7
62.5°	4877.0	4911.1	4265.7	4041.7	3719.7
65°	4265.7	4301.3	3734.5	3071.3	2660.3
67.5°	3638.1	3673.7	3099.5	2284.9	2253.8
70°	3006.0	2715.2	2351.7	1903.6	1918.5
72.5°	2382.9	2086.1	1537.1	1474.8	1065.3
75°	1796.8	1574.2	1194.4	802.7	780.4
77.5°	1250.8	1084.6	639.5	547.5	511.9
80°	776.0	544.5	382.8	339.8	326.4
82.5°	393.2	313.1	207.7	207.7	207.7
85°	160.2	114.2	117.2	127.6	129.1
87.5°	34.1	46.0	56.4	57.9	56.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)