

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: P194929

Luminaire Tested: **XHB-LD1-60-N-V2-L840-MM-BLK**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P194929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28109)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: XHB-LD1-60-N-V2-L840-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 4000K LEDS, 470 WATTS NOMINAL, NARROW BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

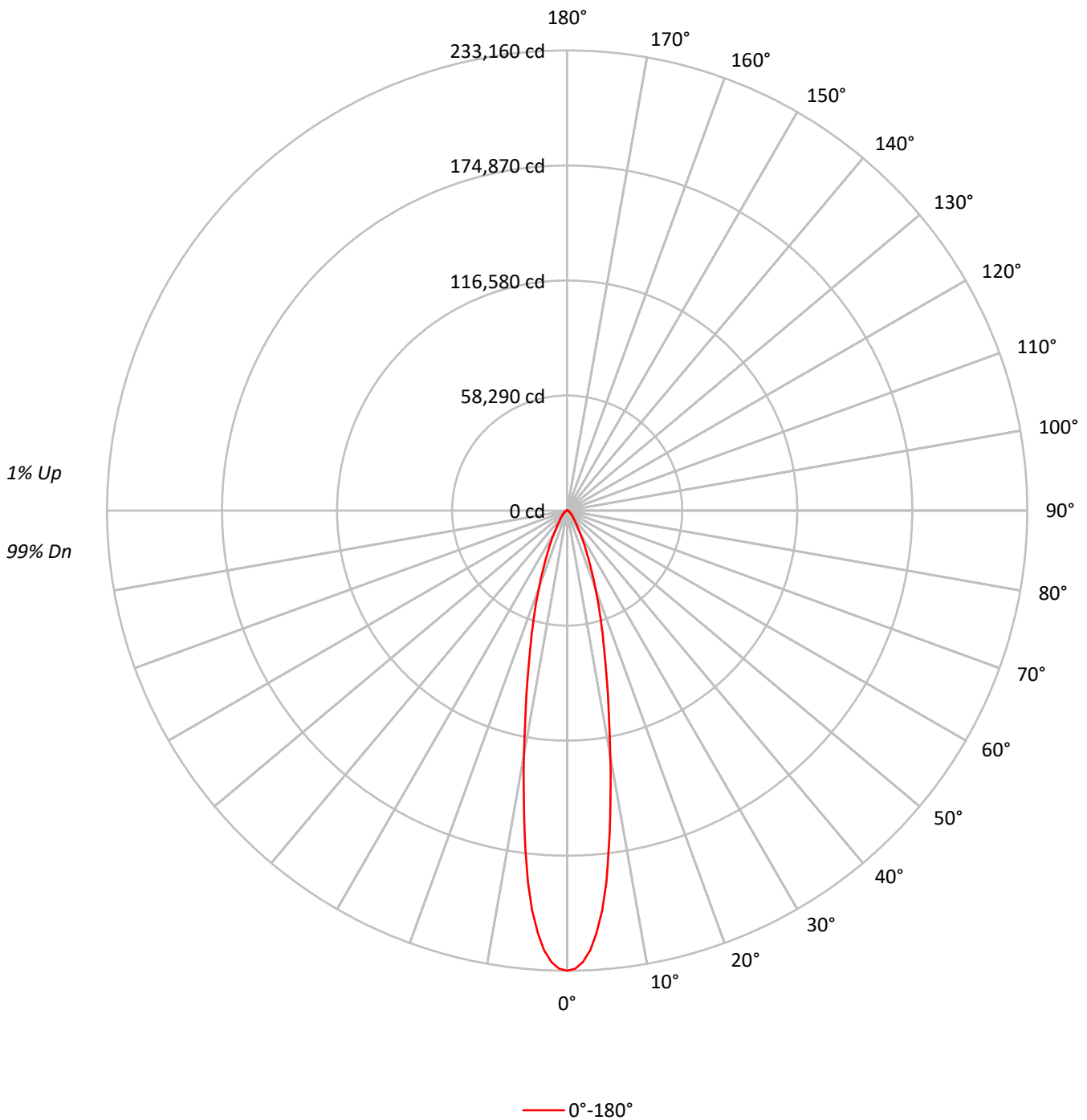
Lumens per Lamp: N/A
Luminaire Lumens: 60116.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.4
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

Input Watts (W): 472
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		101	101	101	99
1	114	111	109	106	111	109	107	105	105	103	101		101	99	98		97	96	95	93
2	109	104	100	97	106	102	99	96	99	96	94		96	94	92		93	91	90	88
3	104	98	94	90	102	97	93	89	94	91	88		92	89	86		89	87	85	83
4	100	93	88	84	98	92	87	84	90	86	83		88	84	82		86	83	81	79
5	96	88	83	79	94	87	83	79	86	82	78		84	80	78		82	79	77	76
6	92	84	79	75	91	84	79	75	82	78	75		81	77	74		79	76	74	72
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	69
8	86	78	72	69	85	77	72	69	76	72	69		75	71	68		74	71	68	67
9	83	75	70	66	82	74	69	66	73	69	66		72	69	66		72	68	65	64
10	80	72	67	64	79	72	67	64	71	67	64		70	66	63		69	66	63	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	954185
5°	830433
10°	516979
15°	299593
20°	177298
25°	101438
30°	59012
35°	36384
40°	25652
45°	19599
50°	14779
55°	11463
60°	9951
65°	8970
70°	8235
75°	7662
80°	7589
85°	8139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16728.3	27.8
10°-20°	20374.8	33.9
20°-30°	11068.2	18.4
30°-40°	5042.6	8.4
40°-50°	2827.0	4.7
50°-60°	1628.5	2.7
60°-70°	1064.0	1.8
70°-80°	655.5	1.1
80°-90°	339.5	0.6
90°-100°	120.1	0.2
100°-110°	70.5	0.1
110°-120°	58.8	0.1
120°-130°	38.1	0.1
130°-140°	32.4	0.1
140°-150°	21.2	0.0
150°-160°	18.5	0.0
160°-170°	20.0	0.0
170°-180°	8.1	0.0
0°-30°	48171.3	80.1
0°-40°	53213.9	88.5
0°-60°	57669.4	95.9
0°-90°	59728.4	99.4
90°-120°	249.4	0.4
90°-150°	341.0	0.6
90°-180°	388.0	0.6
0°-180°	60116.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	233160	
5°	203379	###
15°	72031	20375
25°	23193	11068
35°	7638	5043
45°	3622	2827
55°	1766	1629
65°	1064	1064
75°	610	655
85°	311	281
90°	175	98
95°	103	80
105°	65	70
115°	62	59
125°	35	38
135°	41	32
145°	34	21
155°	39	18
165°	73	20
175°	86	8
180°	92	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	233160.3
1°	232111.3
2°	228820.9
3°	223132.8
4°	214357.2
5°	203379.0
6°	189566.7
7°	173023.4
8°	156756.7
9°	140831.7
10°	125933.6
11°	112337.0
12°	100399.0
13°	89840.3
14°	80435.9
15°	72031.0
17.5°	55042.8
20°	41741.9
22.5°	31151.3
25°	23193.4
27.5°	17261.9
30°	12989.7
32.5°	9934.9
35°	7637.5
37.5°	6109.7
40°	5082.0
42.5°	4266.5
45°	3622.1
47.5°	3052.0
50°	2513.8
52.5°	2066.8
55°	1766.2
57.5°	1532.7
60°	1362.3
62.5°	1203.1
65°	1064.5
67.5°	942.8
70°	819.8
72.5°	722.9
75°	610.4
77.5°	516.3
80°	449.1
82.5°	374.2
85°	311.2
87.5°	248.3



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CANDELA DISTRIBUTION (continued):

	0°
90°	175.4
92.5°	119.5
95°	102.6
97.5°	94.1
100°	72.1
102.5°	72.9
105°	65.1
107.5°	62.2
110°	60.1
112.5°	53.8
115°	62.2
117.5°	65.1
120°	51.6
122.5°	43.9
125°	35.4
127.5°	41.7
130°	45.3
132.5°	48.8
135°	41.0
137.5°	37.5
140°	33.2
142.5°	33.2
145°	34.0
147.5°	34.0
150°	34.7
152.5°	26.9
155°	38.9
157.5°	50.2
160°	60.8
162.5°	69.3
165°	72.9
167.5°	72.1
170°	79.9
172.5°	83.5
175°	85.6
177.5°	91.2
180°	92.0

(END OF REPORT)