

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: P199282

Luminaire Tested: **XHB-LD1-60-N-V2-L850-MM-BLK**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P199282  
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-L850-MM-BLK  
Description: EXTREME HIGH BAY SERIES LUMINAIRE  
80 CRI, 5000K LEDS, 470 WATTS NOMINAL, NARROW BEAM PATTERN  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

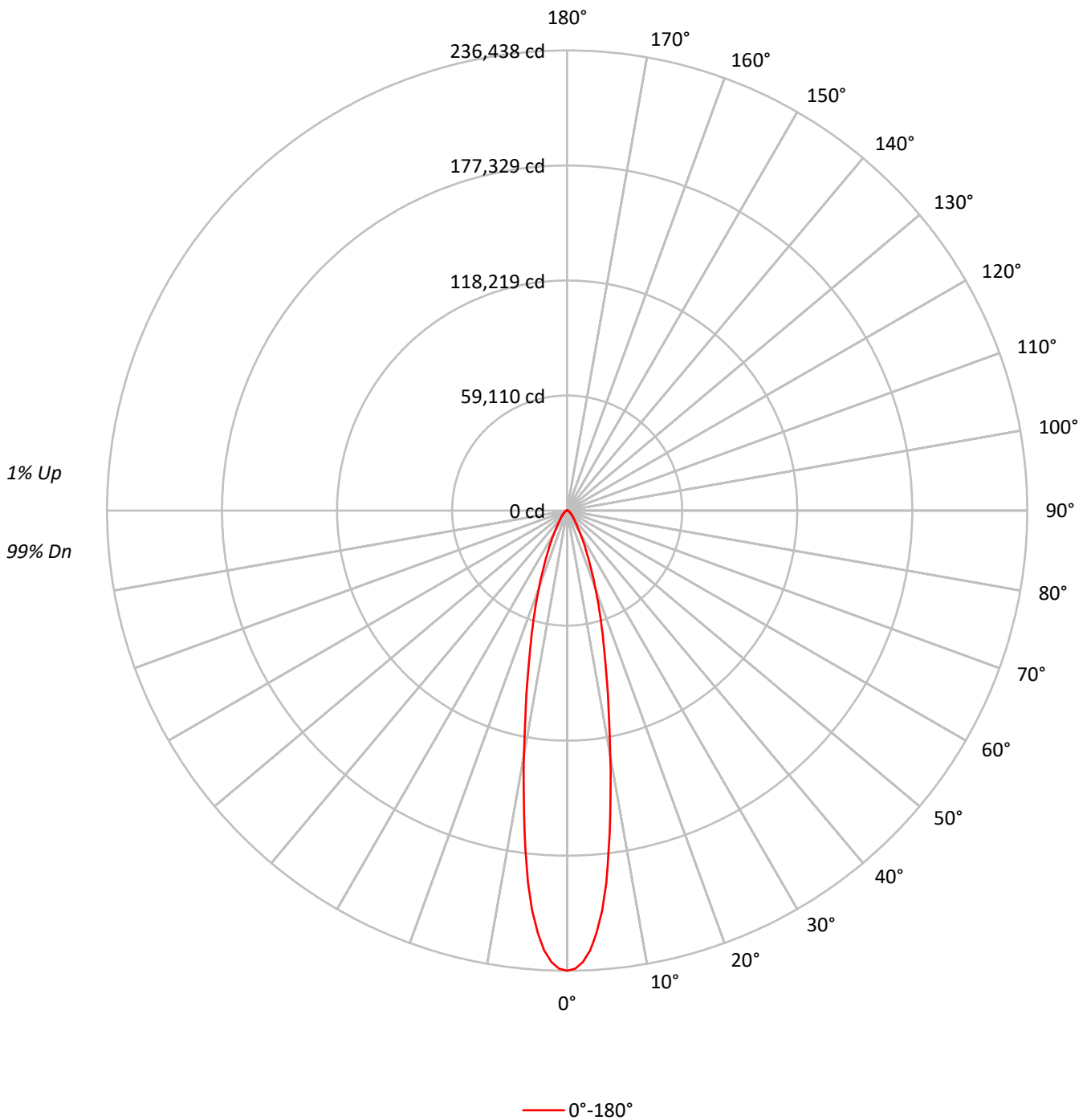
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60961.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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

TEST NUMBER: P199282  
CATALOG NUMBER: XHB-LD1-60-N-V2-L850-MM-BLK

### Luminous Intensity Polar Plot





TEST NUMBER: P199282

CATALOG NUMBER: XHB-LD1-60-N-V2-L850-MM-BLK

**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°	967598
5°	842105
10°	524245
15°	303804
20°	179790
25°	102864
30°	59842
35°	36895
40°	26013
45°	19875
50°	14987
55°	11624
60°	10090
65°	9096
70°	8351
75°	7770
80°	7698
85°	8255



TEST NUMBER: P199282

CATALOG NUMBER: XHB-LD1-60-N-V2-L850-MM-BLK

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16963.5	27.8
10°-20°	20661.2	33.9
20°-30°	11223.7	18.4
30°-40°	5113.5	8.4
40°-50°	2866.7	4.7
50°-60°	1651.4	2.7
60°-70°	1079.0	1.8
70°-80°	664.7	1.1
80°-90°	344.3	0.6
90°-100°	121.8	0.2
100°-110°	71.5	0.1
110°-120°	59.6	0.1
120°-130°	38.6	0.1
130°-140°	32.9	0.1
140°-150°	21.5	0.0
150°-160°	18.7	0.0
160°-170°	20.3	0.0
170°-180°	8.2	0.0
0°-30°	48848.4	80.1
0°-40°	53961.9	88.5
0°-60°	58480.0	95.9
0°-90°	60568.0	99.4
90°-120°	252.9	0.4
90°-150°	345.9	0.6
90°-180°	393.0	0.6
0°-180°	60961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	236438	
5°	206238	###
15°	73043	20661
25°	23519	11224
35°	7745	5113
45°	3673	2867
55°	1791	1651
65°	1080	1079
75°	619	665
85°	316	285
90°	178	100
95°	104	81
105°	66	71
115°	63	60
125°	36	39
135°	42	33
145°	34	21
155°	39	19
165°	74	20
175°	87	8
180°	93	



TEST NUMBER: P199282

CATALOG NUMBER: XHB-LD1-60-N-V2-L850-MM-BLK

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	236437.6
1°	235373.9
2°	232037.3
3°	226269.1
4°	217370.2
5°	206237.7
6°	192231.3
7°	175455.5
8°	158960.1
9°	142811.2
10°	127703.7
11°	113916.0
12°	101810.2
13°	91103.1
14°	81566.5
15°	73043.4
17.5°	55816.5
20°	42328.6
22.5°	31589.2
25°	23519.4
27.5°	17504.5
30°	13172.3
32.5°	10074.5
35°	7744.9
37.5°	6195.6
40°	5153.5
42.5°	4326.5
45°	3673.0
47.5°	3094.9
50°	2549.1
52.5°	2095.8
55°	1791.0
57.5°	1554.3
60°	1381.4
62.5°	1220.0
65°	1079.5
67.5°	956.1
70°	831.3
72.5°	733.0
75°	619.0
77.5°	523.6
80°	455.5
82.5°	379.4
85°	315.6
87.5°	251.8



TEST NUMBER: P199282

CATALOG NUMBER: XHB-LD1-60-N-V2-L850-MM-BLK

**CANDELA DISTRIBUTION (continued):**

	0°
90°	177.9
92.5°	121.2
95°	104.0
97.5°	95.4
100°	73.2
102.5°	73.9
105°	66.0
107.5°	63.1
110°	61.0
112.5°	54.5
115°	63.1
117.5°	66.0
120°	52.4
122.5°	44.5
125°	35.9
127.5°	42.3
130°	45.9
132.5°	49.5
135°	41.6
137.5°	38.0
140°	33.7
142.5°	33.7
145°	34.4
147.5°	34.4
150°	35.1
152.5°	27.3
155°	39.4
157.5°	50.9
160°	61.7
162.5°	70.3
165°	73.9
167.5°	73.2
170°	81.0
172.5°	84.6
175°	86.8
177.5°	92.5
180°	93.2

(END OF REPORT)