

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: P194941

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P194941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27926)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: XHB-LD1-60-W-V2-L840-MM-BLK  
Description: EXTREME HIGH BAY SERIES LUMINAIRE  
80 CRI, 4000K LEDS, 470 WATTS NOMINAL, WIDE BEAM PATTERN  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

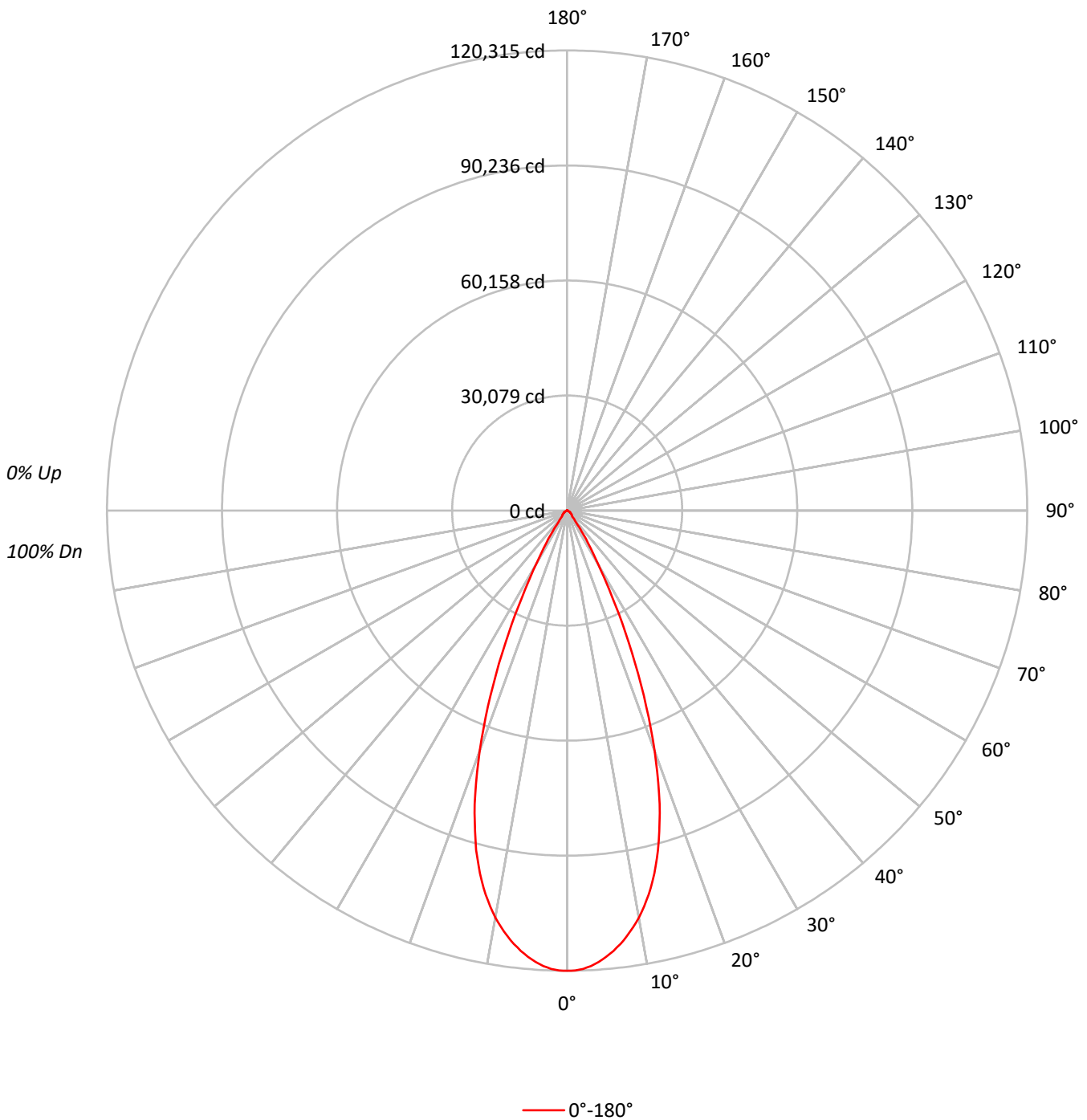
Lumens per Lamp: N/A  
Luminaire Lumens: 61304.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')  
CIE Type: Direct

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: P194941

CATALOG NUMBER: XHB-LD1-60-W-V2-L840-MM-BLK

### Luminous Intensity Polar Plot





TEST NUMBER: P194941

CATALOG NUMBER: XHB-LD1-60-W-V2-L840-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	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	84	80	94	88	83	80	86	82	79	84	81	78	83	80	77	76
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	76	73	70	69
8	85	77	72	68	84	76	72	68	75	71	68	74	70	68	73	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61

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

	0°
0°	492378
5°	478294
10°	443578
15°	382187
20°	283866
25°	166403
30°	72685
35°	31211
40°	11587
45°	9274
50°	8521
55°	6874
60°	5558
65°	4551
70°	3681
75°	2993
80°	2650
85°	3366



TEST NUMBER: P194941

CATALOG NUMBER: XHB-LD1-60-W-V2-L840-MM-BLK

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10893.5	17.8
10°-20°	24977.1	40.7
20°-30°	17479.0	28.5
30°-40°	4491.8	7.3
40°-50°	1361.1	2.2
50°-60°	959.3	1.6
60°-70°	541.8	0.9
70°-80°	259.6	0.4
80°-90°	130.7	0.2
90°-100°	53.4	0.1
100°-110°	45.6	0.1
110°-120°	34.0	0.1
120°-130°	13.8	0.0
130°-140°	9.4	0.0
140°-150°	10.4	0.0
150°-160°	17.5	0.0
160°-170°	18.2	0.0
170°-180°	7.7	0.0
0°-30°	53349.7	87.0
0°-40°	57841.5	94.4
0°-60°	60161.9	98.1
0°-90°	61094.0	99.7
90°-120°	133.0	0.2
90°-150°	166.6	0.3
90°-180°	210.0	0.3
0°-180°	61304.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	120315	
5°	117138	###
15°	91889	24977
25°	38048	17479
35°	6552	4492
45°	1714	1361
55°	1059	959
65°	540	542
75°	238	260
85°	129	108
90°	56	37
95°	46	39
105°	43	46
115°	39	34
125°	14	14
135°	8	9
145°	21	10
155°	44	18
165°	70	18
175°	83	8
180°	86	



TEST NUMBER: P194941

CATALOG NUMBER: XHB-LD1-60-W-V2-L840-MM-BLK

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	120315.1
1°	120256.7
2°	119896.0
3°	119243.3
4°	118312.2
5°	117137.7
6°	115751.6
7°	114172.8
8°	112372.4
9°	110341.4
10°	108053.6
11°	105466.3
12°	102587.1
13°	99378.8
14°	95772.5
15°	91889.0
17.5°	80439.1
20°	66831.6
22.5°	52334.4
25°	38047.5
27.5°	25352.1
30°	15999.3
32.5°	10465.3
35°	6551.6
37.5°	3513.5
40°	2295.5
42.5°	1851.0
45°	1713.9
47.5°	1630.2
50°	1449.4
52.5°	1243.4
55°	1059.1
57.5°	896.0
60°	760.9
62.5°	642.1
65°	540.1
67.5°	447.3
70°	366.4
72.5°	294.0
75°	238.4
77.5°	190.6
80°	156.8
82.5°	135.7
85°	128.7
87.5°	109.0



TEST NUMBER: P194941

CATALOG NUMBER: XHB-LD1-60-W-V2-L840-MM-BLK

**CANDELA DISTRIBUTION (continued):**

	0°
90°	55.6
92.5°	47.1
95°	46.4
97.5°	50.6
100°	47.8
102.5°	40.8
105°	42.9
107.5°	43.6
110°	42.2
112.5°	36.6
115°	38.7
117.5°	29.5
120°	21.1
122.5°	16.9
125°	14.1
127.5°	13.4
130°	12.7
132.5°	16.2
135°	8.4
137.5°	12.7
140°	9.8
142.5°	12.0
145°	21.1
147.5°	18.3
150°	21.8
152.5°	35.9
155°	43.6
157.5°	35.9
160°	54.9
162.5°	63.3
165°	70.3
167.5°	59.8
170°	76.0
172.5°	78.1
175°	83.0
177.5°	89.3
180°	85.8

(END OF REPORT)