

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: P199284

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P199284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27924)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: XHB-LD1-60-M-V2-L850-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 5000K LEDS, 470 WATTS NOMINAL, MEDIUM BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

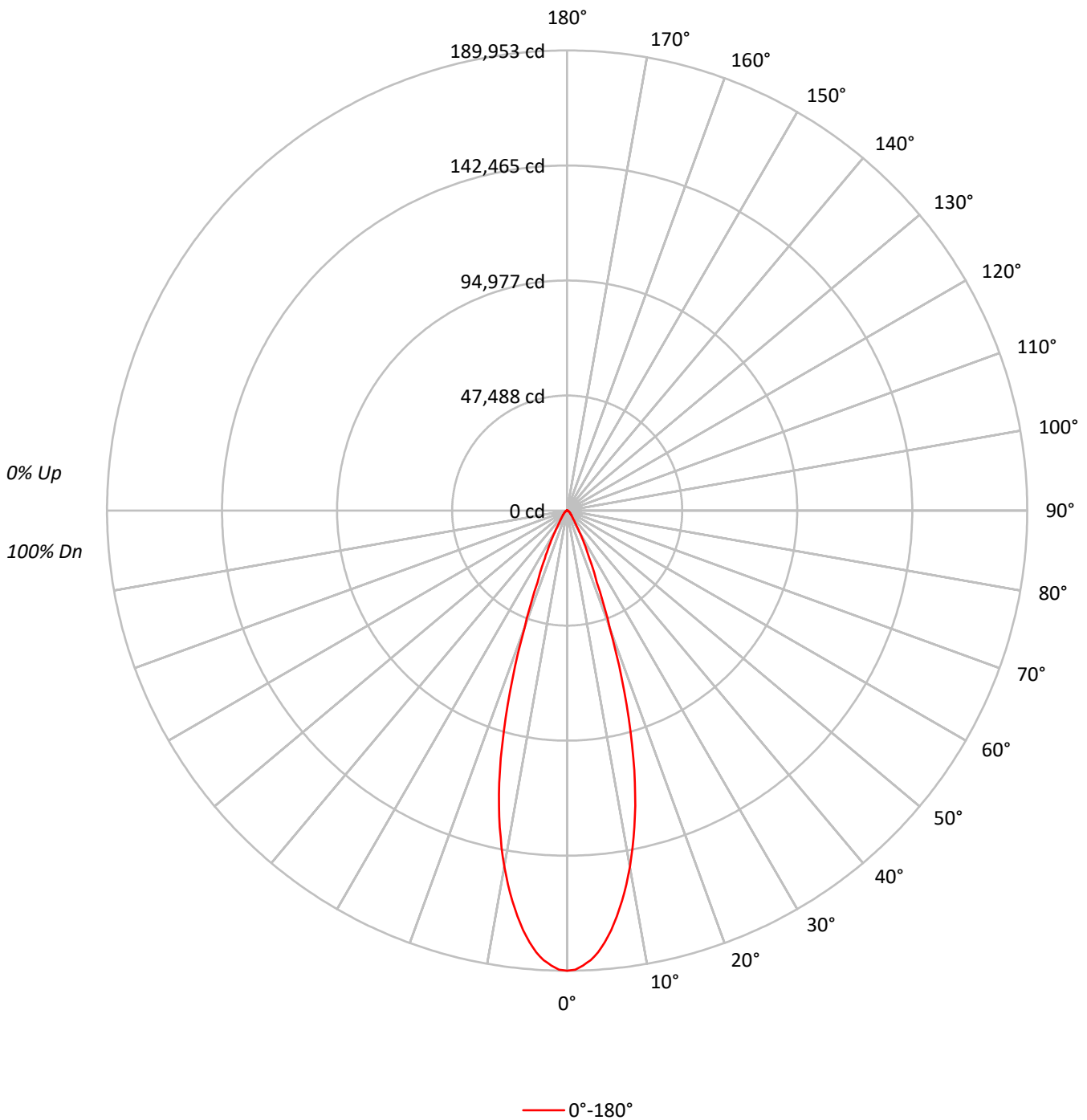
Lumens per Lamp: N/A
Luminaire Lumens: 62438.1 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.5
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

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: P199284

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

Luminous Intensity Polar Plot





TEST NUMBER: P199284

CATALOG NUMBER: XHB-LD1-60-M-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		102	102	102	100
1	114	112	110	108	112	110	108	106	105	104	103		102	101	99		98	97	96	95
2	110	105	102	99	107	104	101	98	101	98	96		98	96	94		95	93	92	90
3	105	100	96	93	104	99	95	92	96	93	90		94	91	89		91	89	88	86
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		88	86	84	82
5	98	91	86	83	96	90	86	82	88	85	82		87	84	81		85	83	80	79
6	94	87	82	79	93	87	82	79	85	81	78		84	80	78		83	79	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	73	79	75	72		78	75	72		77	74	72	71
9	85	78	73	70	84	77	73	70	77	72	70		76	72	69		75	72	69	68
10	83	75	71	68	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	777362
5°	730188
10°	612684
15°	439777
20°	218573
25°	95360
30°	44851
35°	22422
40°	15724
45°	11712
50°	9025
55°	7330
60°	6259
65°	5394
70°	4728
75°	4121
80°	3458
85°	3667



TEST NUMBER: P199284

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16111.1	25.8
10°-20°	27891.2	44.7
20°-30°	11006.8	17.6
30°-40°	3297.0	5.3
40°-50°	1705.5	2.7
50°-60°	1029.4	1.6
60°-70°	640.7	1.0
70°-80°	342.0	0.5
80°-90°	160.6	0.3
90°-100°	78.1	0.1
100°-110°	52.1	0.1
110°-120°	29.5	0.0
120°-130°	18.6	0.0
130°-140°	11.8	0.0
140°-150°	13.7	0.0
150°-160°	19.9	0.0
160°-170°	21.2	0.0
170°-180°	8.9	0.0
0°-30°	55009.1	88.1
0°-40°	58306.1	93.4
0°-60°	61041.0	97.8
0°-90°	62184.3	99.6
90°-120°	159.6	0.3
90°-150°	203.7	0.3
90°-180°	254.0	0.4
0°-180°	62438.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	189953	
5°	178828	###
15°	105735	27891
25°	21804	11007
35°	4707	3297
45°	2164	1705
55°	1130	1029
65°	640	641
75°	328	342
85°	140	131
90°	89	52
95°	66	55
105°	49	52
115°	29	29
125°	26	19
135°	11	12
145°	18	14
155°	42	20
165°	83	21
175°	97	9
180°	97	



TEST NUMBER: P199284

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	189952.6
1°	189537.0
2°	187949.1
3°	185824.6
4°	182798.2
5°	178828.3
6°	174111.6
7°	168710.3
8°	162720.4
9°	156238.3
10°	149247.0
11°	141742.7
12°	133663.4
13°	125034.7
14°	115722.2
15°	105735.2
17.5°	78363.4
20°	51459.5
22.5°	32125.6
25°	21803.8
27.5°	15050.7
30°	9872.6
32.5°	6525.0
35°	4706.7
37.5°	3758.2
40°	3115.1
42.5°	2598.0
45°	2164.5
47.5°	1807.6
50°	1535.0
52.5°	1305.4
55°	1129.5
57.5°	984.3
60°	856.9
62.5°	739.6
65°	640.2
67.5°	547.9
70°	470.7
72.5°	379.1
75°	328.3
77.5°	251.8
80°	204.6
82.5°	175.2
85°	140.2
87.5°	127.3



TEST NUMBER: P199284

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

CANDELA DISTRIBUTION (continued):

	0°
90°	88.7
92.5°	78.0
95°	66.5
97.5°	68.0
100°	58.7
102.5°	58.7
105°	49.4
107.5°	40.8
110°	36.5
112.5°	31.5
115°	29.3
117.5°	27.9
120°	22.9
122.5°	26.5
125°	25.8
127.5°	12.2
130°	12.9
132.5°	21.5
135°	10.7
137.5°	15.0
140°	13.6
142.5°	17.9
145°	17.9
147.5°	28.6
150°	35.8
152.5°	33.6
155°	42.2
157.5°	52.2
160°	59.4
162.5°	66.5
165°	83.0
167.5°	83.0
170°	86.6
172.5°	93.7
175°	97.3
177.5°	96.6
180°	97.3

(END OF REPORT)