

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: P199289

Luminaire Tested: **XHB-LD1-85-EW-V2-L850-MM-BLK**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P199289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27928)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: XHB-LD1-85-EW-V2-L850-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 5000K LEDS, 675 WATTS NOMINAL, EXTRA WIDE BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

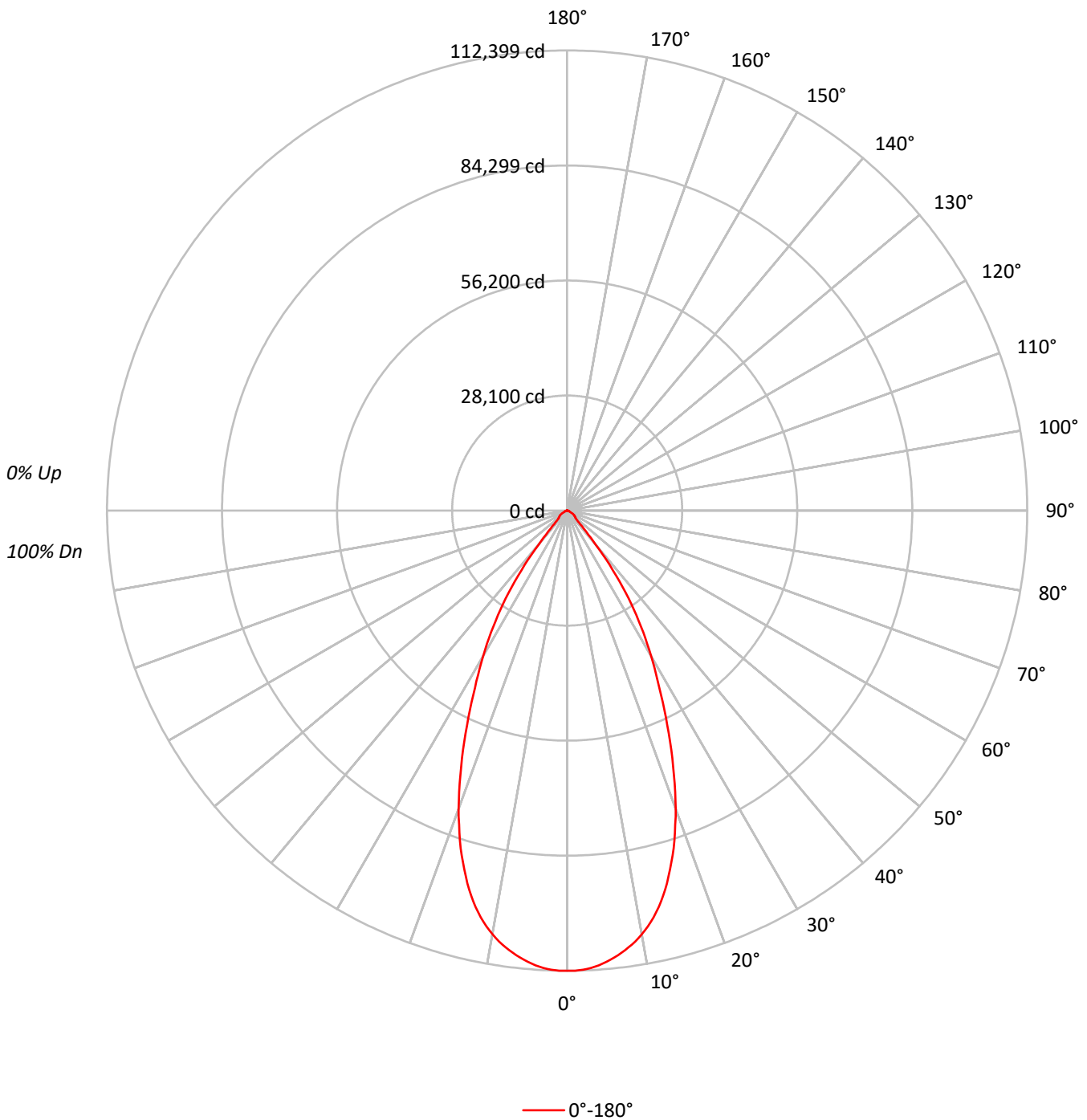
Lumens per Lamp: N/A
Luminaire Lumens: 86358.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.8
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

Input Watts (W): 678
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: P199289

CATALOG NUMBER: XHB-LD1-85-EW-V2-L850-MM-BLK

Luminous Intensity Polar Plot





TEST NUMBER: P199289

CATALOG NUMBER: XHB-LD1-85-EW-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	113	110	108	106	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87	84	82	80
4	97	90	84	80	95	89	83	79	86	82	78		84	81	78		82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68		75	71	68		74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64		71	67	64		70	66	63	62
8	80	71	65	61	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57		64	60	57		64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54		61	57	53		61	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	459983
5°	451721
10°	431462
15°	392005
20°	329396
25°	252858
30°	185991
35°	124703
40°	54605
45°	20188
50°	15322
55°	14235
60°	11281
65°	7075
70°	5552
75°	4850
80°	4524
85°	4907



TEST NUMBER: P199289

CATALOG NUMBER: XHB-LD1-85-EW-V2-L850-MM-BLK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10386.0	12.0
10°-20°	26010.6	30.1
20°-30°	26518.9	30.7
30°-40°	15966.5	18.5
40°-50°	3648.9	4.2
50°-60°	1920.8	2.2
60°-70°	904.2	1.0
70°-80°	417.4	0.5
80°-90°	204.6	0.2
90°-100°	81.3	0.1
100°-110°	64.8	0.1
110°-120°	76.1	0.1
120°-130°	48.0	0.1
130°-140°	34.7	0.0
140°-150°	25.6	0.0
150°-160°	23.3	0.0
160°-170°	18.3	0.0
170°-180°	7.9	0.0
0°-30°	62915.5	72.9
0°-40°	78882.0	91.3
0°-60°	84451.6	97.8
0°-90°	85977.9	99.6
90°-120°	222.2	0.3
90°-150°	330.6	0.4
90°-180°	380.0	0.4
0°-180°	86358.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	112399	
5°	110630	###
15°	94250	26011
25°	57815	26519
35°	26177	15967
45°	3731	3649
55°	2193	1921
65°	840	904
75°	386	417
85°	188	168
90°	110	63
95°	70	55
105°	55	65
115°	70	76
125°	50	48
135°	40	35
145°	34	26
155°	61	23
165°	58	18
175°	83	8
180°	97	



TEST NUMBER: P199289

CATALOG NUMBER: XHB-LD1-85-EW-V2-L850-MM-BLK

CANDELA DISTRIBUTION (FULL):

	0°
0°	112399.4
1°	112398.4
2°	112232.0
3°	111863.9
4°	111332.6
5°	110629.8
6°	109820.6
7°	108842.0
8°	107767.1
9°	106536.0
10°	105102.1
11°	103464.4
12°	101554.9
13°	99398.0
14°	96952.1
15°	94249.6
17.5°	86523.4
20°	77550.9
22.5°	67706.3
25°	57815.1
27.5°	48751.3
30°	40940.0
32.5°	33633.6
35°	26177.2
37.5°	18337.4
40°	10818.1
42.5°	5880.6
45°	3730.8
47.5°	2923.6
50°	2606.2
52.5°	2406.4
55°	2193.4
57.5°	1927.7
60°	1544.4
62.5°	1126.6
65°	839.6
67.5°	654.1
70°	552.7
72.5°	467.5
75°	386.4
77.5°	318.4
80°	267.7
82.5°	217.0
85°	187.6
87.5°	157.2



TEST NUMBER: P199289

CATALOG NUMBER: XHB-LD1-85-EW-V2-L850-MM-BLK

CANDELA DISTRIBUTION (continued):

	0°
90°	110.5
92.5°	84.2
95°	70.0
97.5°	60.8
100°	54.8
102.5°	58.8
105°	54.8
107.5°	64.9
110°	79.1
112.5°	81.1
115°	70.0
117.5°	82.1
120°	67.9
122.5°	53.7
125°	49.7
127.5°	51.7
130°	48.7
132.5°	48.7
135°	39.5
137.5°	44.6
140°	43.6
142.5°	46.6
145°	34.5
147.5°	39.5
150°	40.6
152.5°	50.7
155°	60.8
157.5°	44.6
160°	49.7
162.5°	65.9
165°	57.8
167.5°	81.1
170°	67.9
172.5°	91.3
175°	83.2
177.5°	75.0
180°	97.4

(END OF REPORT)