

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: P199287

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P199287
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-LD1-85-W-V2-L850-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 5000K LEDS, 675 WATTS NOMINAL, WIDE BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

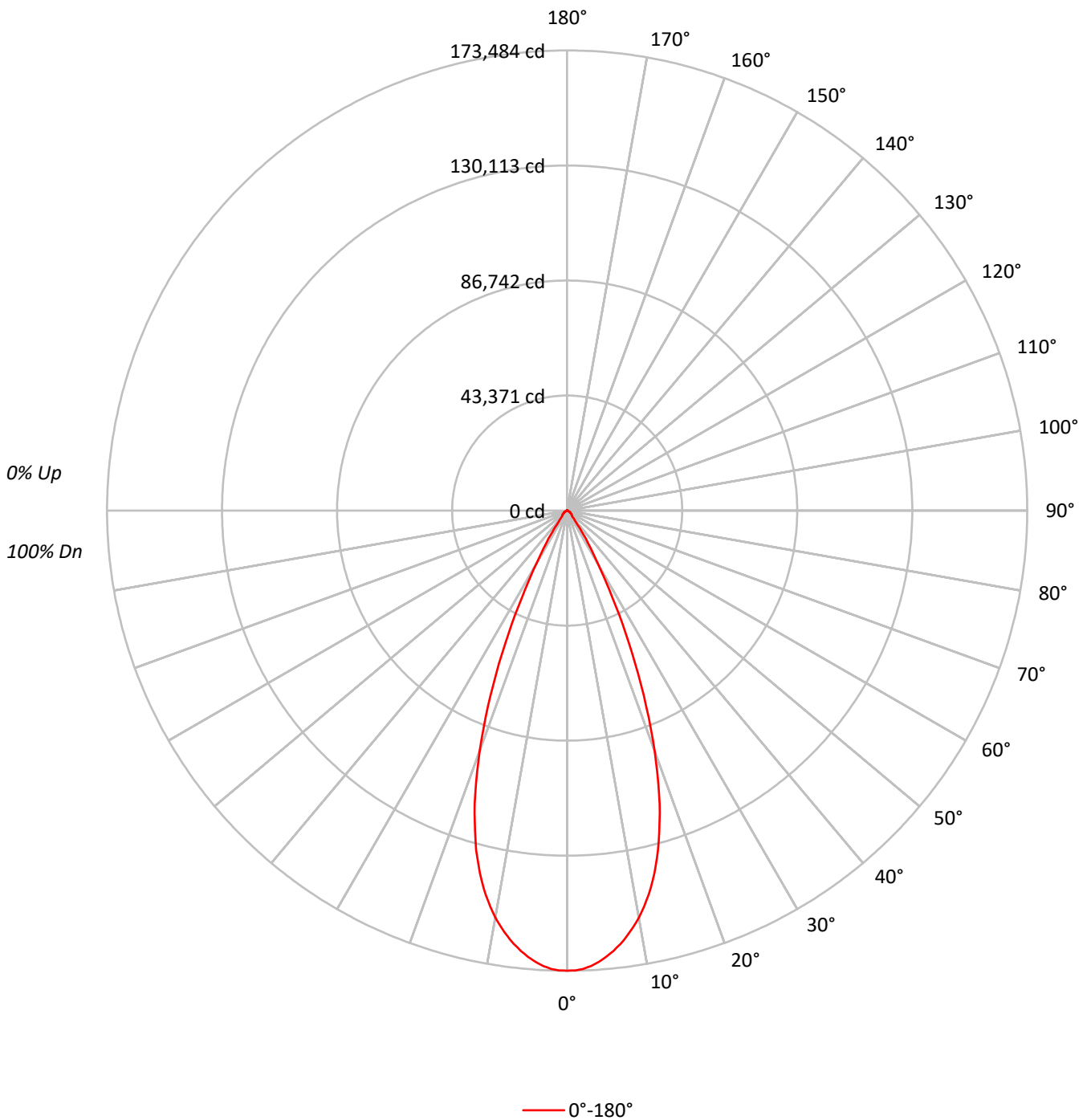
Lumens per Lamp: N/A
Luminaire Lumens: 88395.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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

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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		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°	709966
5°	689659
10°	639602
15°	551080
20°	409310
25°	239939
30°	104806
35°	45003
40°	16707
45°	13372
50°	12287
55°	9912
60°	8015
65°	6562
70°	5307
75°	4316
80°	3821
85°	4854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15707.5	17.8
10°-20°	36014.8	40.7
20°-30°	25203.2	28.5
30°-40°	6476.8	7.3
40°-50°	1962.6	2.2
50°-60°	1383.3	1.6
60°-70°	781.1	0.9
70°-80°	374.3	0.4
80°-90°	188.5	0.2
90°-100°	77.0	0.1
100°-110°	65.7	0.1
110°-120°	49.0	0.1
120°-130°	19.9	0.0
130°-140°	13.6	0.0
140°-150°	15.0	0.0
150°-160°	25.3	0.0
160°-170°	26.2	0.0
170°-180°	11.1	0.0
0°-30°	76925.6	87.0
0°-40°	83402.4	94.4
0°-60°	86748.3	98.1
0°-90°	88092.2	99.7
90°-120°	191.7	0.2
90°-150°	240.2	0.3
90°-180°	303.0	0.3
0°-180°	88395.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	173484	
5°	168902	###
15°	132496	36015
25°	54861	25203
35°	9447	6477
45°	2471	1963
55°	1527	1383
65°	779	781
75°	344	374
85°	186	156
90°	80	53
95°	67	57
105°	62	66
115°	56	49
125°	20	20
135°	12	14
145°	30	15
155°	63	25
165°	101	26
175°	120	11
180°	124	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	173483.9
1°	173399.7
2°	172879.5
3°	171938.4
4°	170595.8
5°	168902.4
6°	166903.7
7°	164627.1
8°	162031.2
9°	159102.6
10°	155803.9
11°	152073.2
12°	147921.7
13°	143295.6
14°	138095.5
15°	132495.9
17.5°	115986.1
20°	96365.3
22.5°	75461.6
25°	54861.2
27.5°	36555.5
30°	23069.7
32.5°	15090.1
35°	9446.9
37.5°	5066.2
40°	3309.9
42.5°	2669.0
45°	2471.2
47.5°	2350.6
50°	2090.0
52.5°	1792.8
55°	1527.2
57.5°	1291.9
60°	1097.2
62.5°	925.8
65°	778.8
67.5°	644.9
70°	528.3
72.5°	423.9
75°	343.8
77.5°	274.8
80°	226.1
82.5°	195.7
85°	185.6
87.5°	157.2



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CANDELA DISTRIBUTION (continued):

	0°
90°	80.1
92.5°	67.9
95°	66.9
97.5°	73.0
100°	69.0
102.5°	58.8
105°	61.9
107.5°	62.9
110°	60.8
112.5°	52.7
115°	55.8
117.5°	42.6
120°	30.4
122.5°	24.3
125°	20.3
127.5°	19.3
130°	18.3
132.5°	23.3
135°	12.2
137.5°	18.3
140°	14.2
142.5°	17.2
145°	30.4
147.5°	26.4
150°	31.4
152.5°	51.7
155°	62.9
157.5°	51.7
160°	79.1
162.5°	91.3
165°	101.4
167.5°	86.2
170°	109.5
172.5°	112.6
175°	119.7
177.5°	128.8
180°	123.7

(END OF REPORT)