

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: P199283

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P199283
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-LD1-85-N-V2-L850-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 5000K LEDS, 675 WATTS NOMINAL, NARROW BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

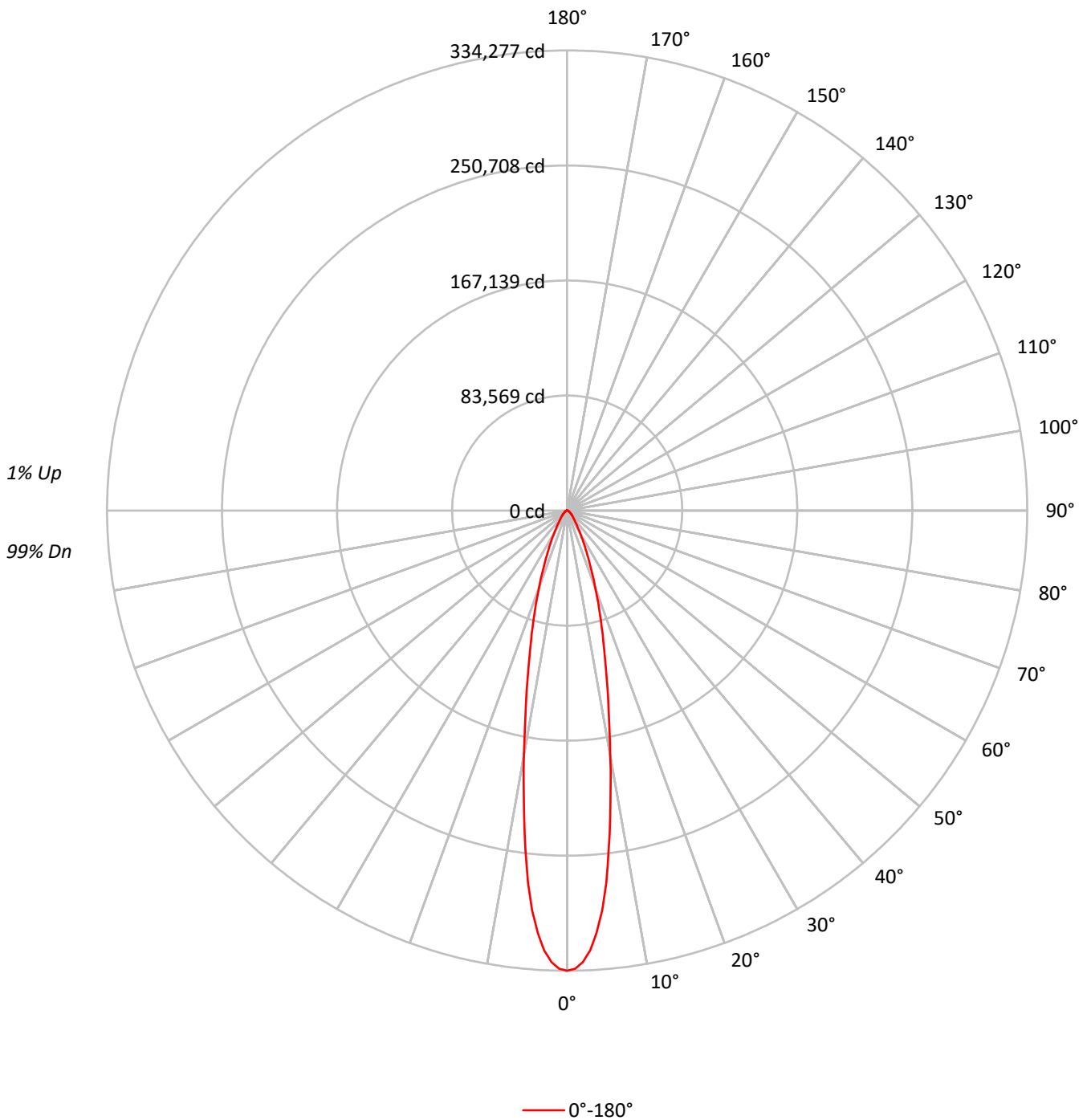
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86187.0 lumens
Efficiency: N/A
Efficacy: 127.1 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): 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		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°	1367995
5°	1190574
10°	741182
15°	429520
20°	254188
25°	145429
30°	84605
35°	52163
40°	36777
45°	28100
50°	21188
55°	16433
60°	14266
65°	12860
70°	11806
75°	10985
80°	10881
85°	11670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23983.0	27.8
10°-20°	29210.9	33.9
20°-30°	15868.2	18.4
30°-40°	7229.5	8.4
40°-50°	4053.0	4.7
50°-60°	2334.8	2.7
60°-70°	1525.5	1.8
70°-80°	939.8	1.1
80°-90°	486.7	0.6
90°-100°	172.2	0.2
100°-110°	101.0	0.1
110°-120°	84.3	0.1
120°-130°	54.5	0.1
130°-140°	46.5	0.1
140°-150°	30.4	0.0
150°-160°	26.5	0.0
160°-170°	28.6	0.0
170°-180°	11.6	0.0
0°-30°	69062.1	80.1
0°-40°	76291.6	88.5
0°-60°	82679.4	95.9
0°-90°	85631.4	99.4
90°-120°	357.5	0.4
90°-150°	488.9	0.6
90°-180°	556.0	0.6
0°-180°	86187.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	334277	
5°	291580	###
15°	103269	29211
25°	33252	15868
35°	10950	7229
45°	5193	4053
55°	2532	2335
65°	1526	1526
75°	875	940
85°	446	403
90°	252	141
95°	147	114
105°	93	101
115°	89	84
125°	51	55
135°	59	46
145°	49	30
155°	56	26
165°	104	29
175°	123	12
180°	132	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	334276.8
1°	332773.0
2°	328055.6
3°	319900.6
4°	307319.2
5°	291580.1
6°	271777.6
7°	248059.9
8°	224738.7
9°	201907.3
10°	180548.3
11°	161055.1
12°	143939.9
13°	128802.1
14°	115319.2
15°	103269.2
17.5°	78913.7
20°	59844.4
22.5°	44661.0
25°	33251.8
27.5°	24748.0
30°	18623.1
32.5°	14243.4
35°	10949.8
37.5°	8759.4
40°	7286.0
42.5°	6116.8
45°	5193.0
47.5°	4375.6
50°	3603.9
52.5°	2963.1
55°	2532.1
57.5°	2197.5
60°	1953.1
62.5°	1724.9
65°	1526.2
67.5°	1351.7
70°	1175.3
72.5°	1036.4
75°	875.1
77.5°	740.3
80°	643.9
82.5°	536.4
85°	446.2
87.5°	355.9



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CANDELA DISTRIBUTION (continued):

	0°
90°	251.5
92.5°	171.4
95°	147.0
97.5°	134.9
100°	103.4
102.5°	104.4
105°	93.3
107.5°	89.2
110°	86.2
112.5°	77.1
115°	89.2
117.5°	93.3
120°	74.0
122.5°	62.9
125°	50.7
127.5°	59.8
130°	64.9
132.5°	70.0
135°	58.8
137.5°	53.7
140°	47.7
142.5°	47.7
145°	48.7
147.5°	48.7
150°	49.7
152.5°	38.5
155°	55.8
157.5°	72.0
160°	87.2
162.5°	99.4
165°	104.4
167.5°	103.4
170°	114.6
172.5°	119.7
175°	122.7
177.5°	130.8
180°	131.8

(END OF REPORT)