

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: P194930

Luminaire Tested: **XHB-LD1-85-N-V2-L840-MM-BLK**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P194930
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-L840-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 4000K LEDS, 675 WATTS NOMINAL, NARROW BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

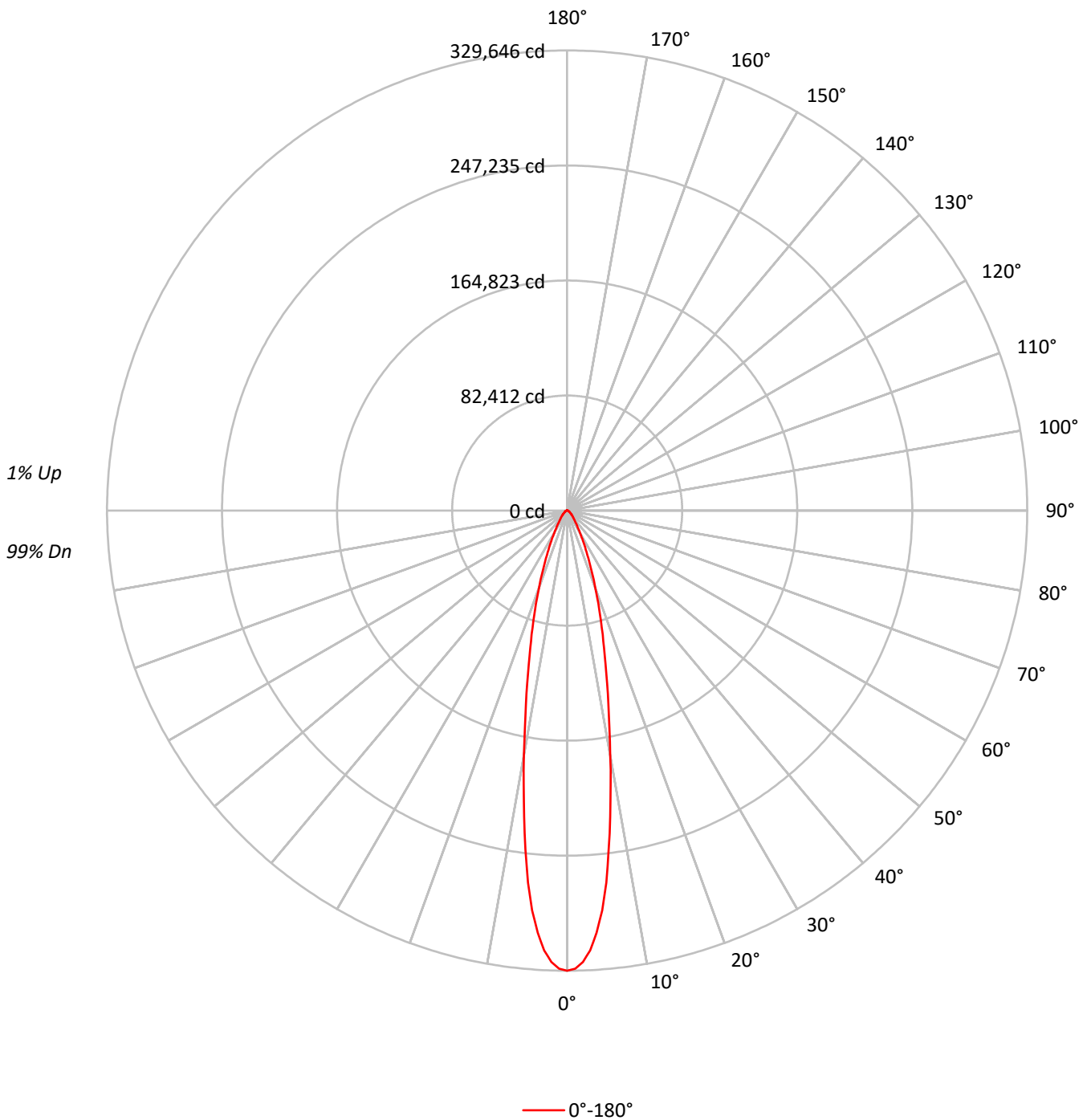
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 84992.9 lumens
Efficiency: N/A
Efficacy: 125.4 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

TEST NUMBER: P194930
CATALOG NUMBER: XHB-LD1-85-N-V2-L840-MM-BLK

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°	1349043
5°	1174080
10°	730913
15°	423570
20°	250666
25°	143415
30°	83433
35°	51440
40°	36267
45°	27710
50°	20895
55°	16206
60°	14069
65°	12681
70°	11642
75°	10833
80°	10731
85°	11508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23650.8	27.8
10°-20°	28806.2	33.9
20°-30°	15648.3	18.4
30°-40°	7129.3	8.4
40°-50°	3996.8	4.7
50°-60°	2302.4	2.7
60°-70°	1504.4	1.8
70°-80°	926.7	1.1
80°-90°	480.0	0.6
90°-100°	169.8	0.2
100°-110°	99.7	0.1
110°-120°	83.1	0.1
120°-130°	53.8	0.1
130°-140°	45.8	0.1
140°-150°	30.0	0.0
150°-160°	26.1	0.0
160°-170°	28.2	0.0
170°-180°	11.4	0.0
0°-30°	68105.4	80.1
0°-40°	75234.7	88.5
0°-60°	81533.9	95.9
0°-90°	84445.0	99.4
90°-120°	352.6	0.4
90°-150°	482.2	0.6
90°-180°	548.0	0.6
0°-180°	84992.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	329646	
5°	287541	###
15°	101839	28806
25°	32791	15648
35°	10798	7129
45°	5121	3997
55°	2497	2302
65°	1505	1504
75°	863	927
85°	440	398
90°	248	139
95°	145	113
105°	92	100
115°	88	83
125°	50	54
135°	58	46
145°	48	30
155°	55	26
165°	103	28
175°	121	11
180°	130	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	329645.9
1°	328162.9
2°	323510.8
3°	315468.8
4°	303061.7
5°	287540.6
6°	268012.5
7°	244623.4
8°	221625.3
9°	199110.1
10°	178047.0
11°	158823.9
12°	141945.8
13°	127017.7
14°	113721.6
15°	101838.6
17.5°	77820.4
20°	59015.3
22.5°	44042.3
25°	32791.2
27.5°	24405.1
30°	18365.1
32.5°	14046.1
35°	10798.1
37.5°	8638.0
40°	7185.0
42.5°	6032.0
45°	5121.0
47.5°	4315.0
50°	3554.0
52.5°	2922.0
55°	2497.0
57.5°	2167.0
60°	1926.0
62.5°	1701.0
65°	1505.0
67.5°	1333.0
70°	1159.0
72.5°	1022.0
75°	863.0
77.5°	730.0
80°	635.0
82.5°	529.0
85°	440.0
87.5°	351.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	248.0
92.5°	169.0
95°	145.0
97.5°	133.0
100°	102.0
102.5°	103.0
105°	92.0
107.5°	88.0
110°	85.0
112.5°	76.0
115°	88.0
117.5°	92.0
120°	73.0
122.5°	62.0
125°	50.0
127.5°	59.0
130°	64.0
132.5°	69.0
135°	58.0
137.5°	53.0
140°	47.0
142.5°	47.0
145°	48.0
147.5°	48.0
150°	49.0
152.5°	38.0
155°	55.0
157.5°	71.0
160°	86.0
162.5°	98.0
165°	103.0
167.5°	102.0
170°	113.0
172.5°	118.0
175°	121.0
177.5°	129.0
180°	130.0

(END OF REPORT)