

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: P194942

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P194942
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-L840-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 4000K LEDS, 675 WATTS NOMINAL, WIDE BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

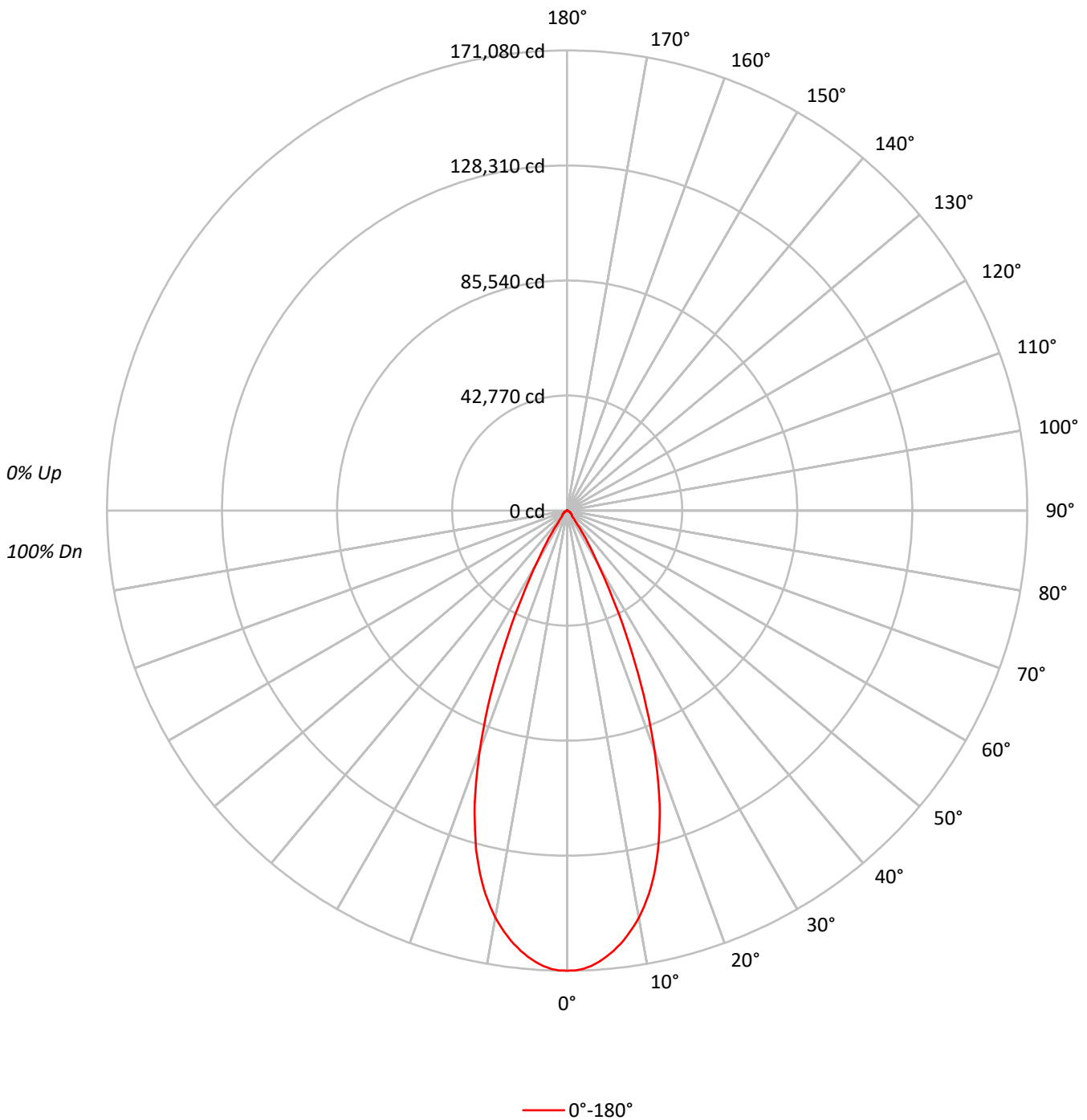
Lumens per Lamp: N/A
Luminaire Lumens: 87170.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

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

TEST NUMBER: P194942

CATALOG NUMBER: XHB-LD1-85-W-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	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°	700127
5°	680101
10°	630738
15°	543443
20°	403637
25°	236614
30°	103353
35°	44380
40°	16475
45°	13187
50°	12117
55°	9774
60°	7904
65°	6471
70°	5234
75°	4255
80°	3768
85°	4786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15489.9	17.8
10°-20°	35515.7	40.7
20°-30°	24854.0	28.5
30°-40°	6387.1	7.3
40°-50°	1935.4	2.2
50°-60°	1364.1	1.6
60°-70°	770.3	0.9
70°-80°	369.1	0.4
80°-90°	185.9	0.2
90°-100°	76.0	0.1
100°-110°	64.8	0.1
110°-120°	48.3	0.1
120°-130°	19.6	0.0
130°-140°	13.4	0.0
140°-150°	14.8	0.0
150°-160°	24.9	0.0
160°-170°	25.9	0.0
170°-180°	10.9	0.0
0°-30°	75859.5	87.0
0°-40°	82246.6	94.4
0°-60°	85546.1	98.1
0°-90°	86871.4	99.7
90°-120°	189.1	0.2
90°-150°	236.9	0.3
90°-180°	299.0	0.3
0°-180°	87170.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	171080	
5°	166562	###
15°	130660	35516
25°	54101	24854
35°	9316	6387
45°	2437	1935
55°	1506	1364
65°	768	770
75°	339	369
85°	183	154
90°	79	52
95°	66	56
105°	61	65
115°	55	48
125°	20	20
135°	12	13
145°	30	15
155°	62	25
165°	100	26
175°	118	11
180°	122	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	171079.7
1°	170996.7
2°	170483.7
3°	169555.7
4°	168231.7
5°	166561.7
6°	164590.7
7°	162345.7
8°	159785.7
9°	156897.7
10°	153644.7
11°	149965.7
12°	145871.7
13°	141309.7
14°	136181.7
15°	130659.7
17.5°	114378.8
20°	95029.8
22.5°	74415.9
25°	54100.9
27.5°	36048.9
30°	22750.0
32.5°	14881.0
35°	9316.0
37.5°	4996.0
40°	3264.0
42.5°	2632.0
45°	2437.0
47.5°	2318.0
50°	2061.0
52.5°	1768.0
55°	1506.0
57.5°	1274.0
60°	1082.0
62.5°	913.0
65°	768.0
67.5°	636.0
70°	521.0
72.5°	418.0
75°	339.0
77.5°	271.0
80°	223.0
82.5°	193.0
85°	183.0
87.5°	155.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	79.0
92.5°	67.0
95°	66.0
97.5°	72.0
100°	68.0
102.5°	58.0
105°	61.0
107.5°	62.0
110°	60.0
112.5°	52.0
115°	55.0
117.5°	42.0
120°	30.0
122.5°	24.0
125°	20.0
127.5°	19.0
130°	18.0
132.5°	23.0
135°	12.0
137.5°	18.0
140°	14.0
142.5°	17.0
145°	30.0
147.5°	26.0
150°	31.0
152.5°	51.0
155°	62.0
157.5°	51.0
160°	78.0
162.5°	90.0
165°	100.0
167.5°	85.0
170°	108.0
172.5°	111.0
175°	118.0
177.5°	127.0
180°	122.0

(END OF REPORT)