

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: P194935

Luminaire Tested: **XHB-LD1-60-M-V2-L840-MM-BLK**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P194935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27924)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: XHB-LD1-60-M-V2-L840-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 4000K LEDS, 470 WATTS NOMINAL, MEDIUM BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

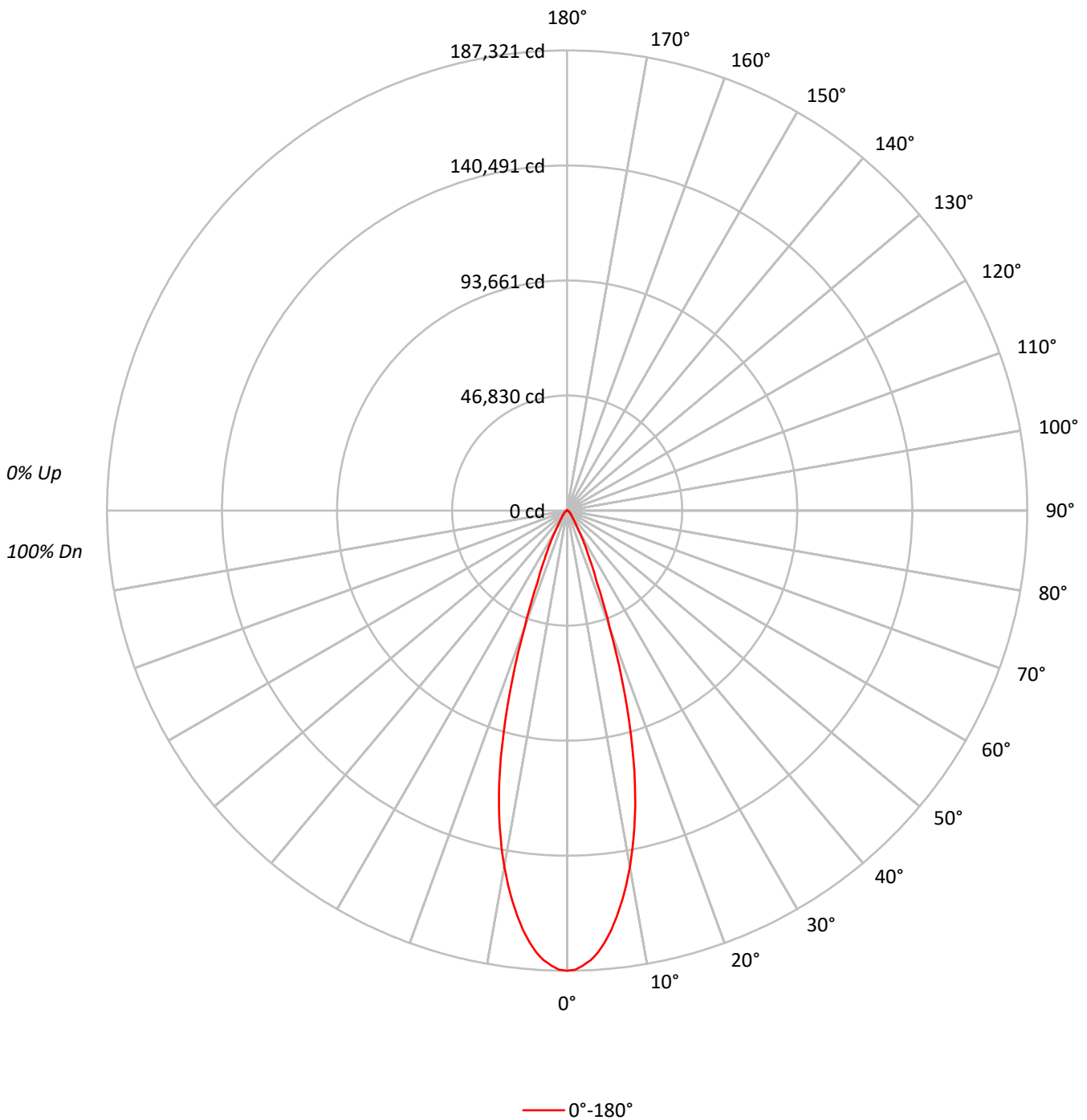
Lumens per Lamp: N/A
Luminaire Lumens: 61573.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.5
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

Input Watts (W): 472
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	112	110	108	112	110	108	106	105	104	103		102	101	99		98	97	96	95
2	110	105	102	99	107	104	101	98	101	98	96		98	96	94		95	93	92	90
3	105	100	96	93	104	99	95	92	96	93	90		94	91	89		91	89	88	86
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		88	86	84	82
5	98	91	86	83	96	90	86	82	88	85	82		87	84	81		85	83	80	79
6	94	87	82	79	93	87	82	79	85	81	78		84	80	78		83	79	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	73	79	75	72		78	75	72		77	74	72	71
9	85	78	73	70	84	77	73	70	77	72	70		76	72	69		75	72	69	68
10	83	75	71	68	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	766593
5°	720072
10°	604196
15°	433684
20°	215545
25°	94040
30°	44230
35°	22111
40°	15506
45°	11550
50°	8900
55°	7229
60°	6173
65°	5319
70°	4662
75°	4064
80°	3409
85°	3617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15887.9	25.8
10°-20°	27504.8	44.7
20°-30°	10854.3	17.6
30°-40°	3251.4	5.3
40°-50°	1681.8	2.7
50°-60°	1015.2	1.6
60°-70°	631.8	1.0
70°-80°	337.2	0.5
80°-90°	158.4	0.3
90°-100°	77.0	0.1
100°-110°	51.3	0.1
110°-120°	29.0	0.0
120°-130°	18.4	0.0
130°-140°	11.6	0.0
140°-150°	13.5	0.0
150°-160°	19.7	0.0
160°-170°	20.9	0.0
170°-180°	8.8	0.0
0°-30°	54247.0	88.1
0°-40°	57498.4	93.4
0°-60°	60195.4	97.8
0°-90°	61322.8	99.6
90°-120°	157.3	0.3
90°-150°	200.8	0.3
90°-180°	250.0	0.4
0°-180°	61573.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	187321	
5°	176351	###
15°	104270	27505
25°	21502	10854
35°	4642	3251
45°	2134	1682
55°	1114	1015
65°	631	632
75°	324	337
85°	138	129
90°	88	52
95°	66	54
105°	49	51
115°	29	29
125°	25	18
135°	11	12
145°	18	14
155°	42	20
165°	82	21
175°	96	9
180°	96	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	187321.1
1°	186911.2
2°	185345.3
3°	183250.3
4°	180265.7
5°	176350.8
6°	171699.5
7°	166373.0
8°	160466.1
9°	154073.8
10°	147179.3
11°	139779.1
12°	131811.7
13°	123302.5
14°	114119.0
15°	104270.3
17.5°	77277.8
20°	50746.6
22.5°	31680.6
25°	21501.8
27.5°	14842.2
30°	9735.8
32.5°	6434.6
35°	4641.5
37.5°	3706.1
40°	3072.0
42.5°	2562.0
45°	2134.5
47.5°	1782.5
50°	1513.8
52.5°	1287.3
55°	1113.8
57.5°	970.6
60°	845.1
62.5°	729.4
65°	631.3
67.5°	540.3
70°	464.1
72.5°	373.9
75°	323.8
77.5°	248.3
80°	201.7
82.5°	172.8
85°	138.3
87.5°	125.6



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CANDELA DISTRIBUTION (continued):

	0°
90°	87.5
92.5°	76.9
95°	65.6
97.5°	67.0
100°	57.8
102.5°	57.8
105°	48.7
107.5°	40.2
110°	36.0
112.5°	31.0
115°	28.9
117.5°	27.5
120°	22.6
122.5°	26.1
125°	25.4
127.5°	12.0
130°	12.7
132.5°	21.2
135°	10.6
137.5°	14.8
140°	13.4
142.5°	17.6
145°	17.6
147.5°	28.2
150°	35.3
152.5°	33.2
155°	41.6
157.5°	51.5
160°	58.5
162.5°	65.6
165°	81.8
167.5°	81.8
170°	85.4
172.5°	92.4
175°	95.9
177.5°	95.2
180°	95.9

(END OF REPORT)