

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: P194948

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P194948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27928)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: XHB-LD1-85-EW-V2-L840-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 4000K LEDS, 675 WATTS NOMINAL, EXTRA WIDE BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

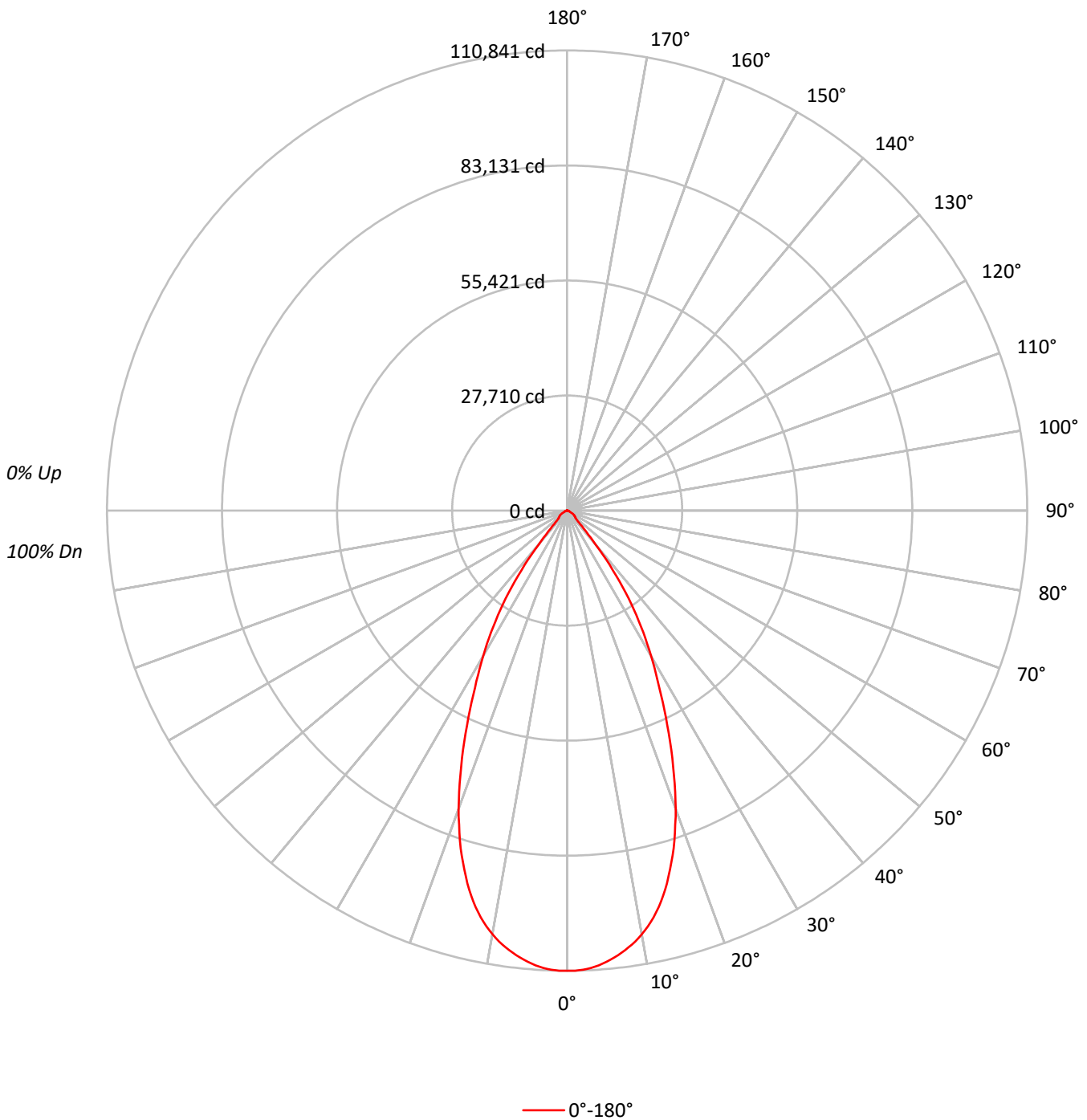
Lumens per Lamp: N/A
Luminaire Lumens: 85160.9 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.8
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

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: P194948

CATALOG NUMBER: XHB-LD1-85-EW-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	113	110	108	106	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87	84	82	80
4	97	90	84	80	95	89	83	79	86	82	78		84	81	78		82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68		75	71	68		74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64		71	67	64		70	66	63	62
8	80	71	65	61	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57		64	60	57		64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54		61	57	53		61	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	453607
5°	445460
10°	425482
15°	386572
20°	324830
25°	249353
30°	183413
35°	122975
40°	53848
45°	19907
50°	15109
55°	14038
60°	11125
65°	6977
70°	5475
75°	4782
80°	4461
85°	4839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10242.0	12.0
10°-20°	25650.1	30.1
20°-30°	26151.3	30.7
30°-40°	15745.2	18.5
40°-50°	3598.2	4.2
50°-60°	1894.2	2.2
60°-70°	891.7	1.0
70°-80°	411.6	0.5
80°-90°	201.8	0.2
90°-100°	80.1	0.1
100°-110°	63.9	0.1
110°-120°	75.1	0.1
120°-130°	47.3	0.1
130°-140°	34.2	0.0
140°-150°	25.3	0.0
150°-160°	23.0	0.0
160°-170°	18.1	0.0
170°-180°	7.7	0.0
0°-30°	62043.4	72.9
0°-40°	77788.6	91.3
0°-60°	83281.0	97.8
0°-90°	84786.1	99.6
90°-120°	219.1	0.3
90°-150°	326.0	0.4
90°-180°	375.0	0.4
0°-180°	85160.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	110841	
5°	109096	###
15°	92943	25650
25°	57014	26151
35°	25814	15745
45°	3679	3598
55°	2163	1894
65°	828	892
75°	381	412
85°	185	166
90°	109	62
95°	69	54
105°	54	64
115°	69	75
125°	49	47
135°	39	34
145°	34	25
155°	60	23
165°	57	18
175°	82	8
180°	96	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	110841.4
1°	110840.4
2°	110676.4
3°	110313.4
4°	109789.4
5°	109096.4
6°	108298.4
7°	107333.4
8°	106273.4
9°	105059.3
10°	103645.3
11°	102030.3
12°	100147.3
13°	98020.2
14°	95608.2
15°	92943.2
17.5°	85324.1
20°	76476.0
22.5°	66767.8
25°	57013.7
27.5°	48075.6
30°	40372.5
32.5°	33167.4
35°	25814.3
37.5°	18083.2
40°	10668.1
42.5°	5799.1
45°	3679.0
47.5°	2883.0
50°	2570.0
52.5°	2373.0
55°	2163.0
57.5°	1901.0
60°	1523.0
62.5°	1111.0
65°	828.0
67.5°	645.0
70°	545.0
72.5°	461.0
75°	381.0
77.5°	314.0
80°	264.0
82.5°	214.0
85°	185.0
87.5°	155.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	109.0
92.5°	83.0
95°	69.0
97.5°	60.0
100°	54.0
102.5°	58.0
105°	54.0
107.5°	64.0
110°	78.0
112.5°	80.0
115°	69.0
117.5°	81.0
120°	67.0
122.5°	53.0
125°	49.0
127.5°	51.0
130°	48.0
132.5°	48.0
135°	39.0
137.5°	44.0
140°	43.0
142.5°	46.0
145°	34.0
147.5°	39.0
150°	40.0
152.5°	50.0
155°	60.0
157.5°	44.0
160°	49.0
162.5°	65.0
165°	57.0
167.5°	80.0
170°	67.0
172.5°	90.0
175°	82.0
177.5°	74.0
180°	96.0

(END OF REPORT)