

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: P194936

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P194936
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-LD1-85-M-V2-L840-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 4000K LEDS, 675 WATTS NOMINAL, MEDIUM BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

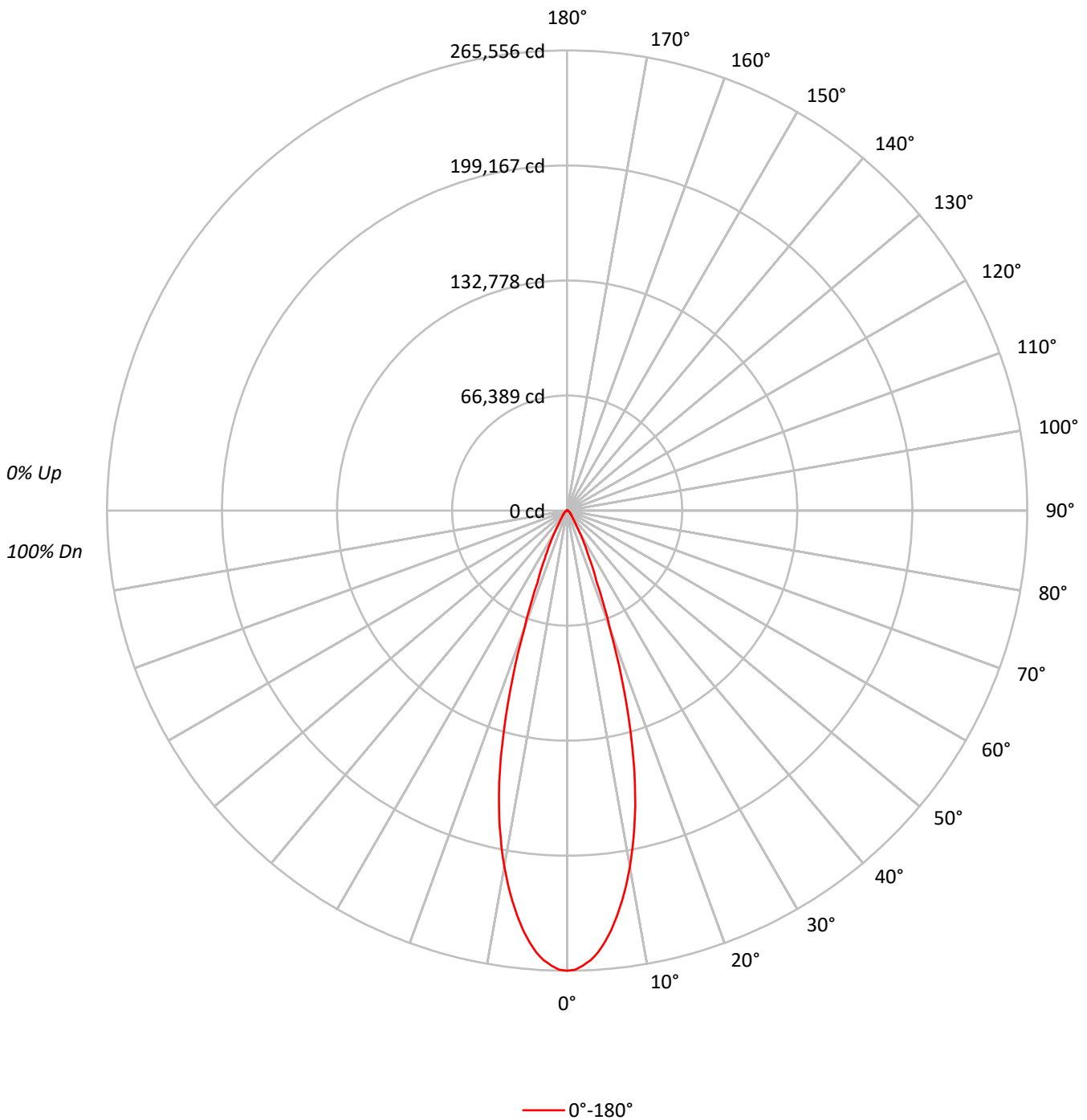
Lumens per Lamp: N/A
Luminaire Lumens: 87289.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.5
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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		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°	1086761
5°	1020810
10°	856539
15°	614812
20°	305568
25°	133315
30°	62703
35°	31346
40°	21982
45°	16374
50°	12617
55°	10248
60°	8751
65°	7541
70°	6610
75°	5762
80°	4833
85°	5126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22523.5	25.8
10°-20°	38992.2	44.7
20°-30°	15387.7	17.6
30°-40°	4609.3	5.3
40°-50°	2384.3	2.7
50°-60°	1439.1	1.6
60°-70°	895.7	1.0
70°-80°	478.1	0.5
80°-90°	224.6	0.3
90°-100°	109.2	0.1
100°-110°	72.7	0.1
110°-120°	41.2	0.0
120°-130°	26.0	0.0
130°-140°	16.4	0.0
140°-150°	19.2	0.0
150°-160°	27.9	0.0
160°-170°	29.7	0.0
170°-180°	12.5	0.0
0°-30°	76903.3	88.1
0°-40°	81512.6	93.4
0°-60°	85336.0	97.8
0°-90°	86934.3	99.6
90°-120°	223.1	0.3
90°-150°	284.7	0.3
90°-180°	355.0	0.4
0°-180°	87289.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	265556	
5°	250004	###
15°	147819	38992
25°	30482	15388
35°	6580	4609
45°	3026	2384
55°	1579	1439
65°	895	896
75°	459	478
85°	196	183
90°	124	73
95°	93	77
105°	69	73
115°	41	41
125°	36	26
135°	15	16
145°	25	19
155°	59	28
165°	116	30
175°	136	12
180°	136	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	265555.8
1°	264974.8
2°	262754.8
3°	259784.8
4°	255553.8
5°	250003.8
6°	243409.8
7°	235858.8
8°	227484.9
9°	218422.9
10°	208648.9
11°	198157.9
12°	186862.9
13°	174799.9
14°	161780.9
15°	147818.9
17.5°	109552.9
20°	71941.0
22.5°	44912.0
25°	30482.0
27.5°	21041.0
30°	13802.0
32.5°	9122.0
35°	6580.0
37.5°	5254.0
40°	4355.0
42.5°	3632.0
45°	3026.0
47.5°	2527.0
50°	2146.0
52.5°	1825.0
55°	1579.0
57.5°	1376.0
60°	1198.0
62.5°	1034.0
65°	895.0
67.5°	766.0
70°	658.0
72.5°	530.0
75°	459.0
77.5°	352.0
80°	286.0
82.5°	245.0
85°	196.0
87.5°	178.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	124.0
92.5°	109.0
95°	93.0
97.5°	95.0
100°	82.0
102.5°	82.0
105°	69.0
107.5°	57.0
110°	51.0
112.5°	44.0
115°	41.0
117.5°	39.0
120°	32.0
122.5°	37.0
125°	36.0
127.5°	17.0
130°	18.0
132.5°	30.0
135°	15.0
137.5°	21.0
140°	19.0
142.5°	25.0
145°	25.0
147.5°	40.0
150°	50.0
152.5°	47.0
155°	59.0
157.5°	73.0
160°	83.0
162.5°	93.0
165°	116.0
167.5°	116.0
170°	121.0
172.5°	131.0
175°	136.0
177.5°	135.0
180°	136.0

(END OF REPORT)