

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: P199288

Luminaire Tested: **XHB-LD1-60-EW-V2-L850-MM-BLK**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P199288
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-LD1-60-EW-V2-L850-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 5000K LEDS, 470 WATTS NOMINAL, EXTRA WIDE BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

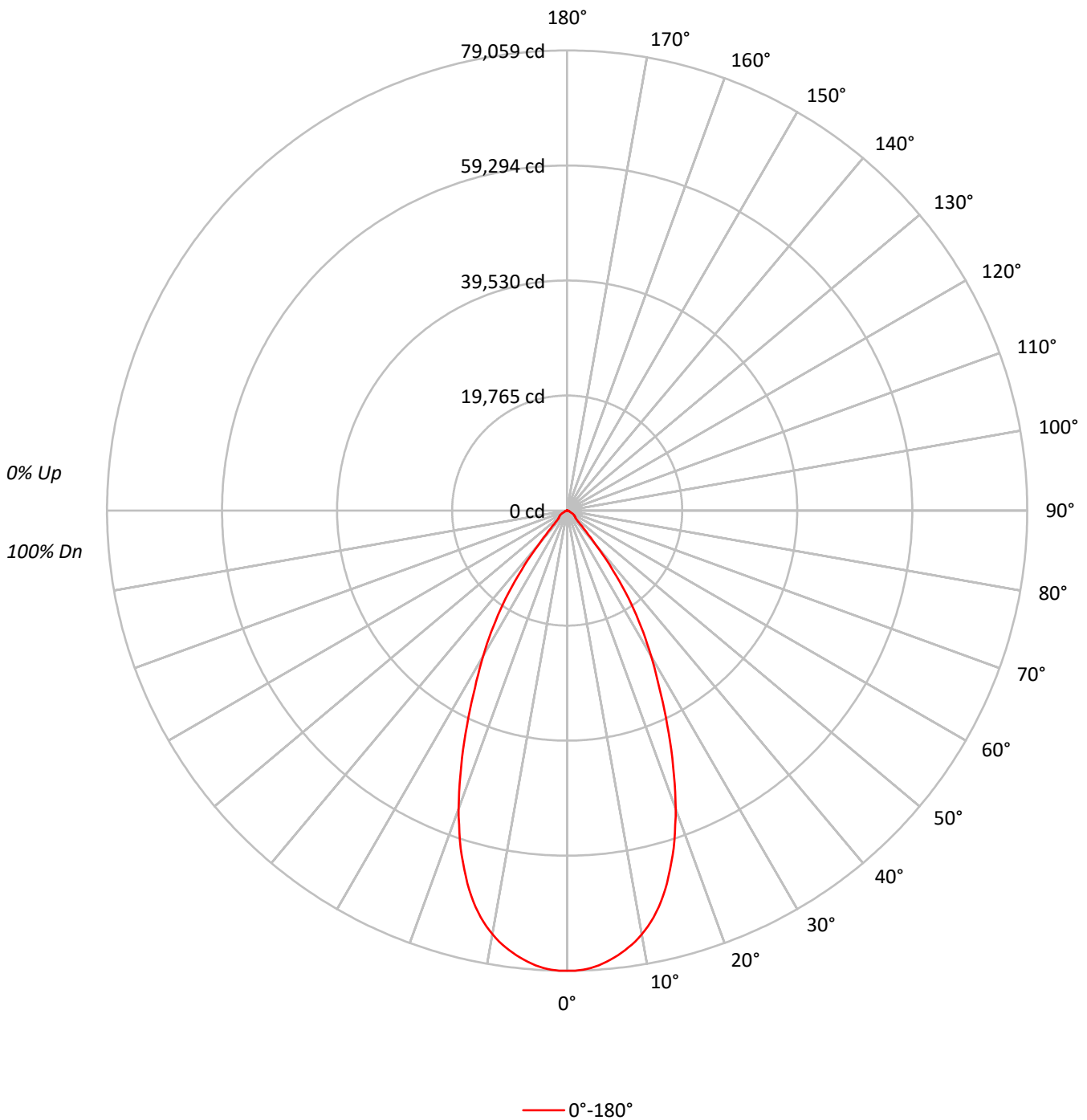
Lumens per Lamp: N/A
Luminaire Lumens: 60742.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.8
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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°	323540
5°	317729
10°	303479
15°	275726
20°	231689
25°	177854
30°	130821
35°	87713
40°	38408
45°	14199
50°	10777
55°	10013
60°	7935
65°	4977
70°	3905
75°	3412
80°	3182
85°	3452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7305.2	12.0
10°-20°	18295.2	30.1
20°-30°	18652.7	30.7
30°-40°	11230.4	18.5
40°-50°	2566.5	4.2
50°-60°	1351.0	2.2
60°-70°	636.0	1.0
70°-80°	293.6	0.5
80°-90°	143.9	0.2
90°-100°	57.1	0.1
100°-110°	45.6	0.1
110°-120°	53.6	0.1
120°-130°	33.8	0.1
130°-140°	24.4	0.0
140°-150°	18.0	0.0
150°-160°	16.4	0.0
160°-170°	12.9	0.0
170°-180°	5.5	0.0
0°-30°	44253.1	72.9
0°-40°	55483.5	91.3
0°-60°	59401.1	97.8
0°-90°	60474.7	99.6
90°-120°	156.3	0.3
90°-150°	232.5	0.4
90°-180°	267.0	0.4
0°-180°	60742.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	79059	
5°	77814	###
15°	66293	18295
25°	40666	18653
35°	18412	11230
45°	2624	2567
55°	1543	1351
65°	591	636
75°	272	294
85°	132	118
90°	78	45
95°	49	38
105°	38	46
115°	49	54
125°	35	34
135°	28	24
145°	24	18
155°	43	16
165°	41	13
175°	58	6
180°	68	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	79058.8
1°	79058.1
2°	78941.1
3°	78682.2
4°	78308.5
5°	77814.2
6°	77245.0
7°	76556.7
8°	75800.6
9°	74934.7
10°	73926.1
11°	72774.2
12°	71431.1
13°	69914.0
14°	68193.6
15°	66292.7
17.5°	60858.3
20°	54547.3
22.5°	47622.9
25°	40665.7
27.5°	34290.4
30°	28796.1
32.5°	23657.0
35°	18412.3
37.5°	12898.1
40°	7609.2
42.5°	4136.3
45°	2624.1
47.5°	2056.4
50°	1833.1
52.5°	1692.6
55°	1542.8
57.5°	1355.9
60°	1086.3
62.5°	792.4
65°	590.6
67.5°	460.1
70°	388.7
72.5°	328.8
75°	271.8
77.5°	224.0
80°	188.3
82.5°	152.6
85°	132.0
87.5°	110.6



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CANDELA DISTRIBUTION (continued):

	0°
90°	77.7
92.5°	59.2
95°	49.2
97.5°	42.8
100°	38.5
102.5°	41.4
105°	38.5
107.5°	45.6
110°	55.6
112.5°	57.1
115°	49.2
117.5°	57.8
120°	47.8
122.5°	37.8
125°	35.0
127.5°	36.4
130°	34.2
132.5°	34.2
135°	27.8
137.5°	31.4
140°	30.7
142.5°	32.8
145°	24.3
147.5°	27.8
150°	28.5
152.5°	35.7
155°	42.8
157.5°	31.4
160°	35.0
162.5°	46.4
165°	40.7
167.5°	57.1
170°	47.8
172.5°	64.2
175°	58.5
177.5°	52.8
180°	68.5

(END OF REPORT)