

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: P194947

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P194947
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-L840-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 4000K LEDS, 470 WATTS NOMINAL, EXTRA WIDE BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

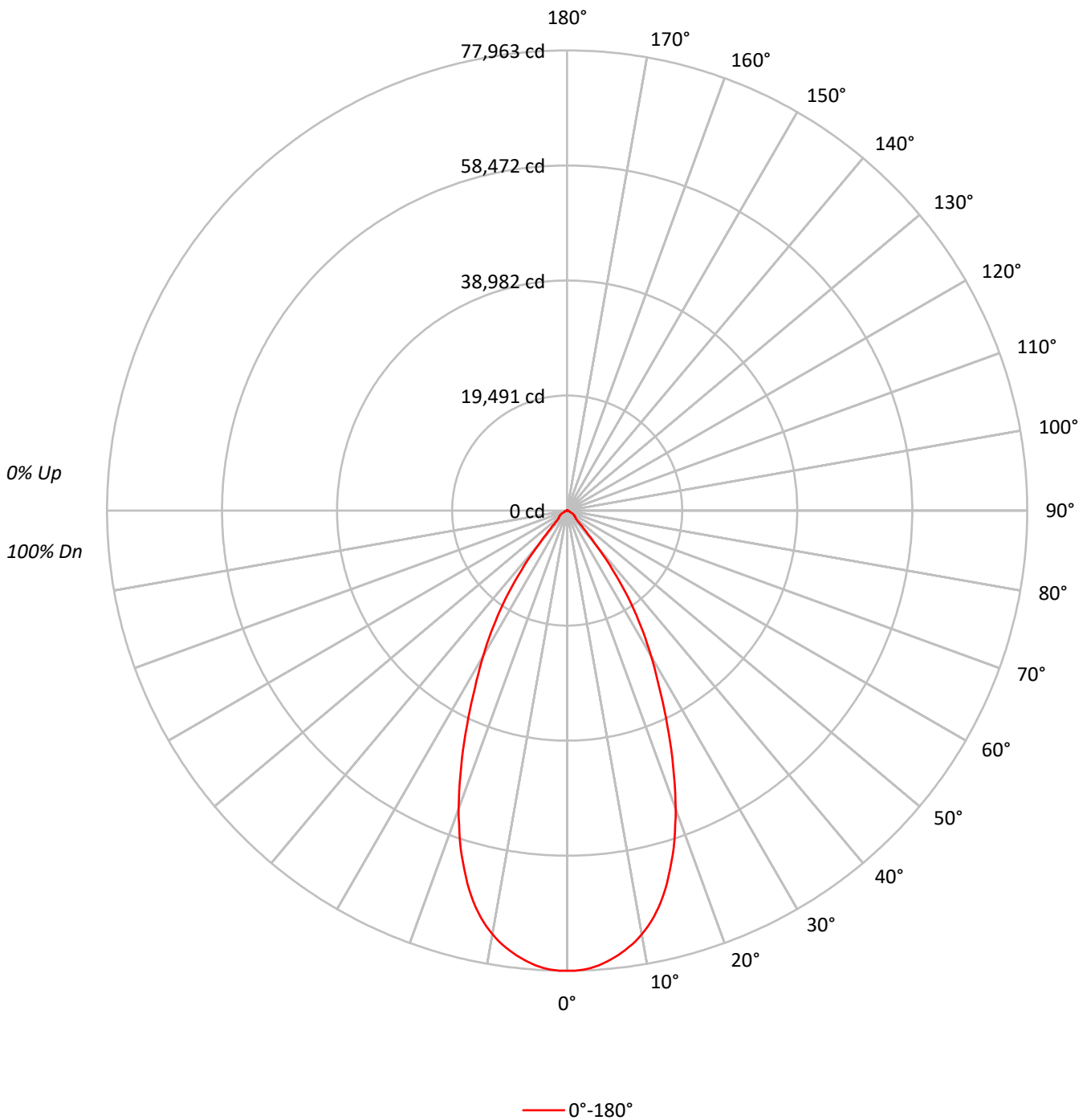
Lumens per Lamp: N/A
Luminaire Lumens: 59900.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.8
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

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

TEST NUMBER: P194947

CATALOG NUMBER: XHB-LD1-60-EW-V2-L840-MM-BLK

Luminous Intensity Polar Plot





TEST NUMBER: P194947

CATALOG NUMBER: XHB-LD1-60-EW-V2-L840-MM-BLK

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°	319055
5°	313325
10°	299273
15°	271904
20°	228477
25°	175388
30°	129008
35°	86497
40°	37875
45°	14002
50°	10628
55°	9874
60°	7825
65°	4907
70°	3850
75°	3364
80°	3138
85°	3403



TEST NUMBER: P194947

CATALOG NUMBER: XHB-LD1-60-EW-V2-L840-MM-BLK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7204.0	12.0
10°-20°	18041.6	30.1
20°-30°	18394.1	30.7
30°-40°	11074.8	18.5
40°-50°	2530.9	4.2
50°-60°	1332.3	2.2
60°-70°	627.2	1.0
70°-80°	289.5	0.5
80°-90°	141.9	0.2
90°-100°	56.4	0.1
100°-110°	45.0	0.1
110°-120°	52.8	0.1
120°-130°	33.3	0.1
130°-140°	24.1	0.0
140°-150°	17.8	0.0
150°-160°	16.1	0.0
160°-170°	12.7	0.0
170°-180°	5.4	0.0
0°-30°	43639.7	72.9
0°-40°	54714.4	91.3
0°-60°	58577.7	97.8
0°-90°	59636.4	99.6
90°-120°	154.2	0.3
90°-150°	229.3	0.4
90°-180°	264.0	0.4
0°-180°	59900.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	77963	
5°	76736	###
15°	65374	18042
25°	40102	18394
35°	18157	11075
45°	2588	2531
55°	1521	1332
65°	582	627
75°	268	290
85°	130	116
90°	77	44
95°	48	38
105°	38	45
115°	48	53
125°	34	33
135°	27	24
145°	24	18
155°	42	16
165°	40	13
175°	58	5
180°	68	



TEST NUMBER: P194947

CATALOG NUMBER: XHB-LD1-60-EW-V2-L840-MM-BLK

CANDELA DISTRIBUTION (FULL):

0°	
0°	77962.9
1°	77962.2
2°	77846.9
3°	77591.5
4°	77223.0
5°	76735.5
6°	76174.2
7°	75495.5
8°	74749.9
9°	73896.0
10°	72901.4
11°	71765.4
12°	70440.9
13°	68944.9
14°	67248.3
15°	65373.8
17.5°	60014.7
20°	53791.2
22.5°	46962.7
25°	40101.9
27.5°	33815.1
30°	28397.0
32.5°	23329.1
35°	18157.1
37.5°	12719.3
40°	7503.7
42.5°	4078.9
45°	2587.7
47.5°	2027.9
50°	1807.7
52.5°	1669.1
55°	1521.4
57.5°	1337.1
60°	1071.3
62.5°	781.5
65°	582.4
67.5°	453.7
70°	383.3
72.5°	324.3
75°	268.0
77.5°	220.9
80°	185.7
82.5°	150.5
85°	130.1
87.5°	109.0



TEST NUMBER: P194947

CATALOG NUMBER: XHB-LD1-60-EW-V2-L840-MM-BLK

CANDELA DISTRIBUTION (continued):

	0°
90°	76.7
92.5°	58.4
95°	48.5
97.5°	42.2
100°	38.0
102.5°	40.8
105°	38.0
107.5°	45.0
110°	54.9
112.5°	56.3
115°	48.5
117.5°	57.0
120°	47.1
122.5°	37.3
125°	34.5
127.5°	35.9
130°	33.8
132.5°	33.8
135°	27.4
137.5°	30.9
140°	30.2
142.5°	32.4
145°	23.9
147.5°	27.4
150°	28.1
152.5°	35.2
155°	42.2
157.5°	30.9
160°	34.5
162.5°	45.7
165°	40.1
167.5°	56.3
170°	47.1
172.5°	63.3
175°	57.7
177.5°	52.1
180°	67.5

(END OF REPORT)