

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: P199286

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P199286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27926)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: XHB-LD1-60-W-V2-L850-MM-BLK
Description: EXTREME HIGH BAY SERIES LUMINAIRE
80 CRI, 5000K LEDS, 470 WATTS NOMINAL, WIDE BEAM PATTERN
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

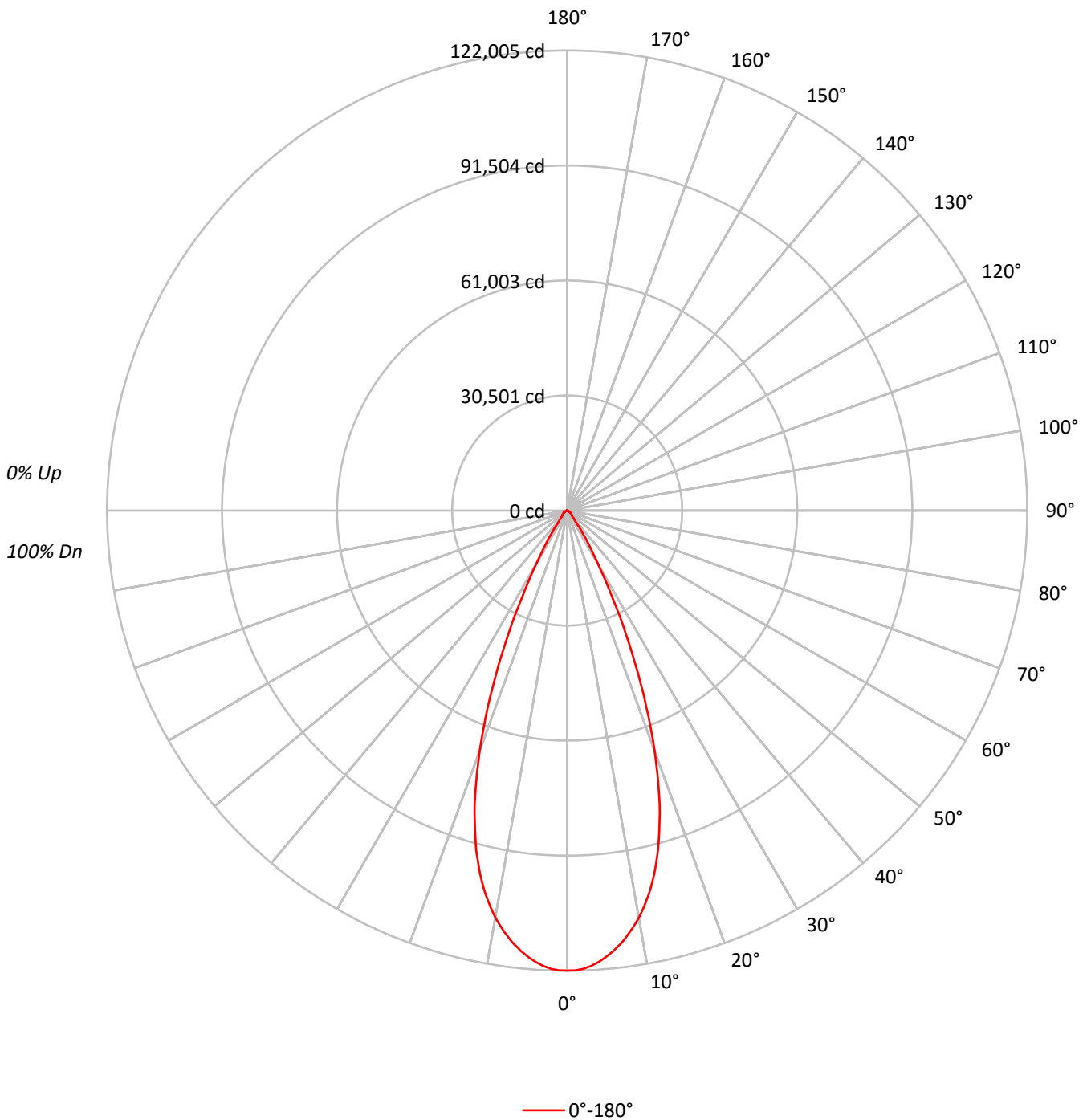
Lumens per Lamp: N/A
Luminaire Lumens: 62165.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 0.1')
CIE Type: Direct

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	111	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	84
4	100	93	89	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	89	84	80	94	88	83	80	86	82	79		84	81	78		83	80	77	76
6	92	84	79	76	91	84	79	75	82	78	75		81	77	74		80	76	74	72
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		76	73	70	69
8	85	77	72	68	84	76	72	68	75	71	68		74	70	68		73	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71	67	64	63
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68	64	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	499293
5°	485012
10°	449808
15°	387555
20°	287853
25°	168741
30°	73706
35°	31649
40°	11749
45°	9404
50°	8641
55°	6970
60°	5636
65°	4615
70°	3732
75°	3035
80°	2687
85°	3413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11046.5	17.8
10°-20°	25327.9	40.7
20°-30°	17724.5	28.5
30°-40°	4554.9	7.3
40°-50°	1380.2	2.2
50°-60°	972.8	1.6
60°-70°	549.4	0.9
70°-80°	263.2	0.4
80°-90°	132.5	0.2
90°-100°	54.2	0.1
100°-110°	46.2	0.1
110°-120°	34.5	0.1
120°-130°	14.0	0.0
130°-140°	9.6	0.0
140°-150°	10.5	0.0
150°-160°	17.8	0.0
160°-170°	18.5	0.0
170°-180°	7.8	0.0
0°-30°	54099.0	87.0
0°-40°	58653.9	94.4
0°-60°	61006.9	98.1
0°-90°	61952.0	99.7
90°-120°	134.9	0.2
90°-150°	168.9	0.3
90°-180°	213.0	0.3
0°-180°	62165.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	122005	
5°	118783	###
15°	93180	25328
25°	38582	17725
35°	6644	4555
45°	1738	1380
55°	1074	973
65°	548	549
75°	242	263
85°	130	110
90°	56	37
95°	47	40
105°	44	46
115°	39	34
125°	14	14
135°	9	10
145°	21	11
155°	44	18
165°	71	18
175°	84	8
180°	87	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	122004.9
1°	121945.7
2°	121579.9
3°	120918.1
4°	119973.9
5°	118782.9
6°	117377.3
7°	115776.3
8°	113950.6
9°	111891.1
10°	109571.2
11°	106947.6
12°	104027.9
13°	100774.6
14°	97117.6
15°	93179.6
17.5°	81568.9
20°	67770.2
22.5°	53069.4
25°	38581.9
27.5°	25708.2
30°	16224.1
32.5°	10612.3
35°	6643.7
37.5°	3562.9
40°	2327.7
42.5°	1877.0
45°	1737.9
47.5°	1653.1
50°	1469.8
52.5°	1260.8
55°	1074.0
57.5°	908.5
60°	771.6
62.5°	651.1
65°	547.7
67.5°	453.6
70°	371.5
72.5°	298.1
75°	241.8
77.5°	193.3
80°	159.0
82.5°	137.6
85°	130.5
87.5°	110.5



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CANDELA DISTRIBUTION (continued):

	0°
90°	56.3
92.5°	47.8
95°	47.1
97.5°	51.3
100°	48.5
102.5°	41.4
105°	43.5
107.5°	44.2
110°	42.8
112.5°	37.1
115°	39.2
117.5°	30.0
120°	21.4
122.5°	17.1
125°	14.3
127.5°	13.5
130°	12.8
132.5°	16.4
135°	8.6
137.5°	12.8
140°	10.0
142.5°	12.1
145°	21.4
147.5°	18.5
150°	22.1
152.5°	36.4
155°	44.2
157.5°	36.4
160°	55.6
162.5°	64.2
165°	71.3
167.5°	60.6
170°	77.0
172.5°	79.2
175°	84.2
177.5°	90.6
180°	87.0

(END OF REPORT)