

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P701299

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L12_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L12_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 12,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

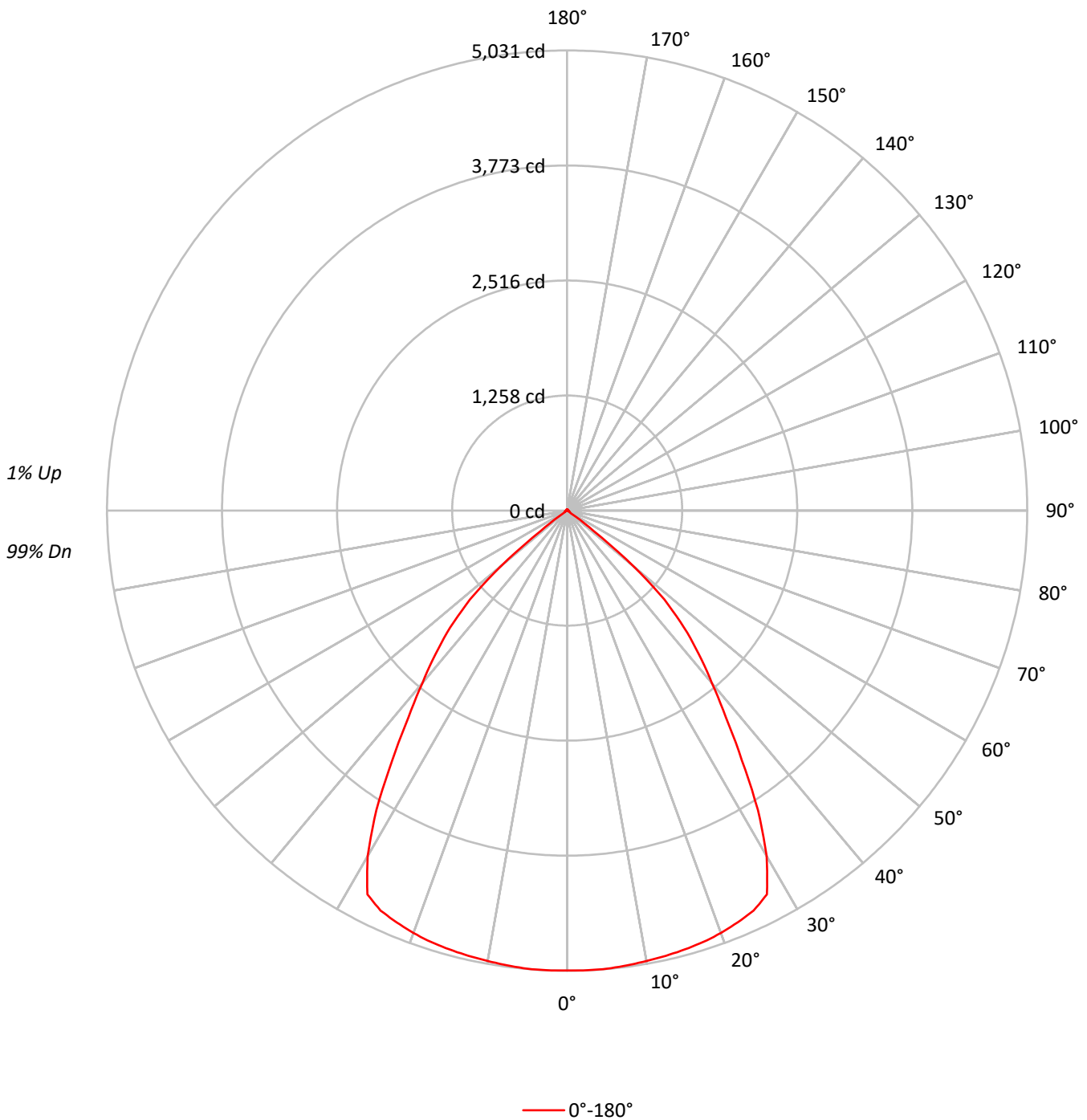
Lumens per Lamp: N/A
Luminaire Lumens: 7839.5 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 80
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 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		101	101	101	99
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	100	92	86	82	97	91	85	81	88	83	80		85	82	78		83	80	77	75
4	93	85	78	74	91	84	78	73	81	76	72		79	75	71		77	73	70	69
5	88	78	71	66	86	77	71	66	75	70	65		73	68	65		72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	77	67	60	55	76	66	59	55	65	59	54		63	58	54		62	57	54	52
8	73	62	55	50	71	61	55	50	60	54	50		59	54	50		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	47	43	64	53	47	43	52	46	42		51	46	42		51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37578
5°	34744
10°	32360
15°	30448
20°	28817
25°	27317
30°	24039
35°	18024
40°	13190
45°	9651
50°	5113
55°	261
60°	166
65°	152
70°	137
75°	107
80°	68
85°	36

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9651 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.0	6.1
10°-20°	1406.1	17.9
20°-30°	2200.2	28.1
30°-40°	2091.3	26.7
40°-50°	1356.9	17.3
50°-60°	202.6	2.6
60°-70°	26.4	0.3
70°-80°	17.8	0.2
80°-90°	6.1	0.1
90°-100°	7.6	0.1
100°-110°	8.1	0.1
110°-120°	7.6	0.1
120°-130°	7.2	0.1
130°-140°	7.4	0.1
140°-150°	6.8	0.1
150°-160°	5.1	0.1
160°-170°	2.6	0.0
170°-180°	0.7	0.0
0°-30°	4085.3	52.1
0°-40°	6176.6	78.8
0°-60°	7736.1	98.7
0°-90°	7786.3	99.3
90°-120°	23.4	0.3
90°-150°	44.8	0.6
90°-180°	53.0	0.7
0°-180°	7839.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5028	
5°	5028	479
15°	4968	1406
25°	4826	2200
35°	3330	2091
45°	1808	1357
55°	48	203
65°	27	26
75°	17	18
85°	5	5
90°	3	2
95°	8	6
105°	8	8
115°	8	8
125°	8	7
135°	9	7
145°	11	7
155°	11	5
165°	9	3
175°	7	1
180°	7	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5028.0
2.5°	5030.6
5°	5028.0
7.5°	5016.0
10°	5000.5
12.5°	4986.0
15°	4967.9
17.5°	4946.5
20°	4914.8
22.5°	4872.7
25°	4825.5
27.5°	4730.3
30°	4360.6
32.5°	3880.2
35°	3330.3
37.5°	2847.3
40°	2463.0
42.5°	2131.8
45°	1807.5
47.5°	1440.4
50°	953.1
52.5°	362.9
55°	48.0
57.5°	32.6
60°	30.0
62.5°	28.3
65°	26.6
67.5°	24.9
70°	23.2
72.5°	19.7
75°	17.2
77.5°	13.7
80°	10.3
82.5°	7.7
85°	5.1
87.5°	2.6
90°	3.4
92.5°	6.9
95°	7.7
97.5°	7.7
100°	7.7
102.5°	7.7
105°	7.7
107.5°	7.7
110°	7.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	7.7
115°	7.7
117.5°	7.7
120°	7.7
122.5°	7.7
125°	7.7
127.5°	8.6
130°	8.6
132.5°	9.4
135°	9.4
137.5°	10.3
140°	10.3
142.5°	10.3
145°	11.2
147.5°	11.2
150°	11.2
152.5°	11.2
155°	11.2
157.5°	11.2
160°	10.3
162.5°	10.3
165°	8.6
167.5°	7.7
170°	7.7
172.5°	6.9
175°	6.9
177.5°	6.9
180°	6.9

(END OF REPORT)