

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: P701284

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L12_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701284
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(4000K_L12_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 12,000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

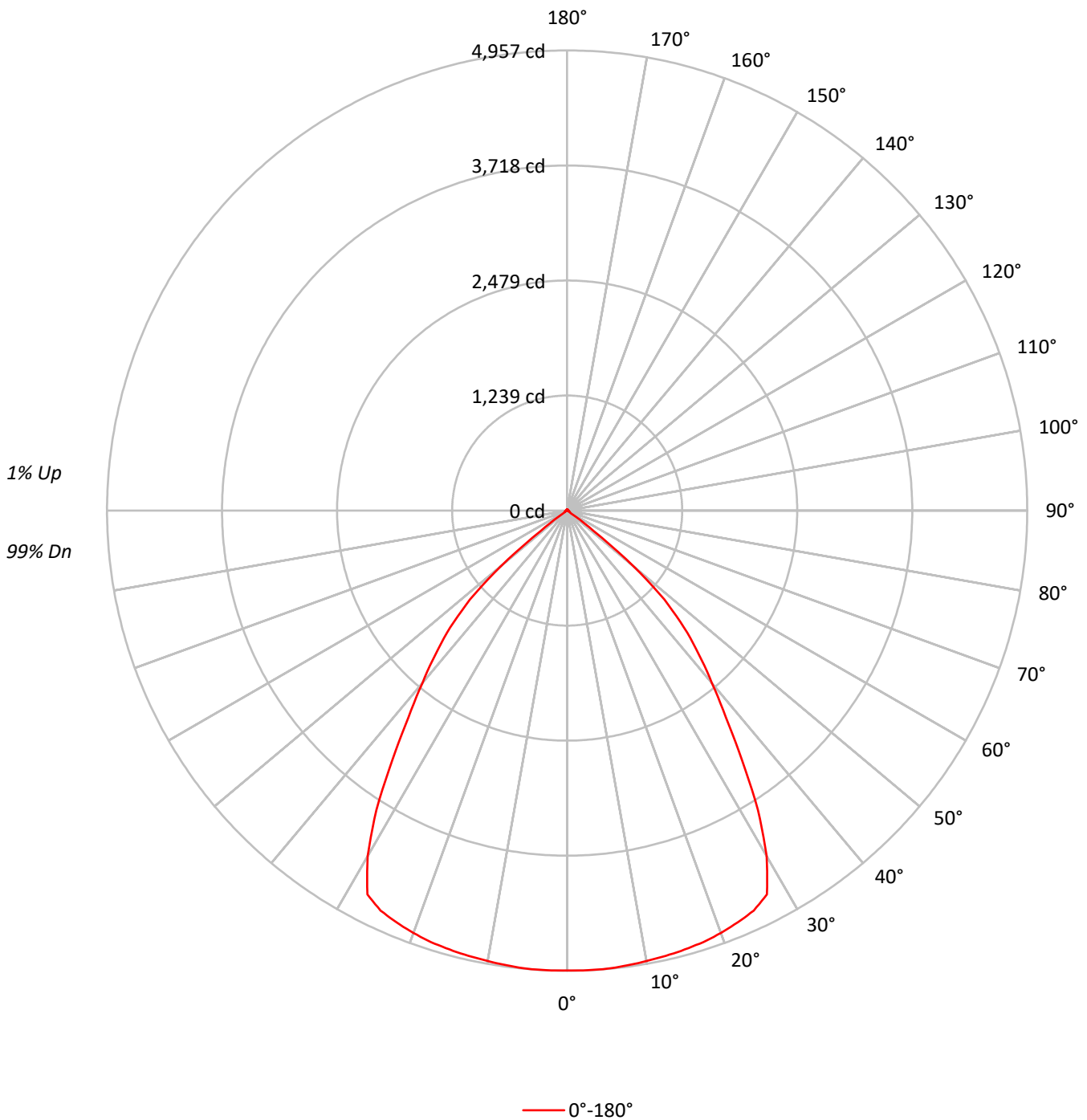
Lumens per Lamp: N/A
Luminaire Lumens: 7724.6 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 80.3
Input Voltage (V): 120
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: 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°	37027
5°	34235
10°	31886
15°	30002
20°	28394
25°	26917
30°	23686
35°	17759
40°	12997
45°	9510
50°	5038
55°	257
60°	164
65°	149
70°	135
75°	105
80°	66
85°	36

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9510 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.0	6.1
10°-20°	1385.5	17.9
20°-30°	2168.0	28.1
30°-40°	2060.7	26.7
40°-50°	1337.0	17.3
50°-60°	199.6	2.6
60°-70°	26.0	0.3
70°-80°	17.5	0.2
80°-90°	6.0	0.1
90°-100°	7.5	0.1
100°-110°	8.0	0.1
110°-120°	7.5	0.1
120°-130°	7.1	0.1
130°-140°	7.3	0.1
140°-150°	6.7	0.1
150°-160°	5.0	0.1
160°-170°	2.5	0.0
170°-180°	0.7	0.0
0°-30°	4025.4	52.1
0°-40°	6086.1	78.8
0°-60°	7622.7	98.7
0°-90°	7672.1	99.3
90°-120°	23.1	0.3
90°-150°	44.2	0.6
90°-180°	52.0	0.7
0°-180°	7724.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4954	
5°	4954	472
15°	4895	1385
25°	4755	2168
35°	3281	2061
45°	1781	1337
55°	47	200
65°	26	26
75°	17	17
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°	8	3
175°	7	1
180°	7	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4954.3
2.5°	4956.8
5°	4954.3
7.5°	4942.5
10°	4927.2
12.5°	4912.9
15°	4895.1
17.5°	4874.0
20°	4842.7
22.5°	4801.3
25°	4754.8
27.5°	4661.0
30°	4296.7
32.5°	3823.3
35°	3281.4
37.5°	2805.5
40°	2426.9
42.5°	2100.6
45°	1781.0
47.5°	1419.3
50°	939.1
52.5°	357.6
55°	47.3
57.5°	32.1
60°	29.6
62.5°	27.9
65°	26.2
67.5°	24.5
70°	22.8
72.5°	19.4
75°	16.9
77.5°	13.5
80°	10.1
82.5°	7.6
85°	5.1
87.5°	2.5
90°	3.4
92.5°	6.8
95°	7.6
97.5°	7.6
100°	7.6
102.5°	7.6
105°	7.6
107.5°	7.6
110°	7.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	7.6
115°	7.6
117.5°	7.6
120°	7.6
122.5°	7.6
125°	7.6
127.5°	8.5
130°	8.5
132.5°	9.3
135°	9.3
137.5°	10.1
140°	10.1
142.5°	10.1
145°	11.0
147.5°	11.0
150°	11.0
152.5°	11.0
155°	11.0
157.5°	11.0
160°	10.1
162.5°	10.1
165°	8.5
167.5°	7.6
170°	7.6
172.5°	6.8
175°	6.8
177.5°	6.8
180°	6.8

(END OF REPORT)