

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: P709466

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709466
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: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

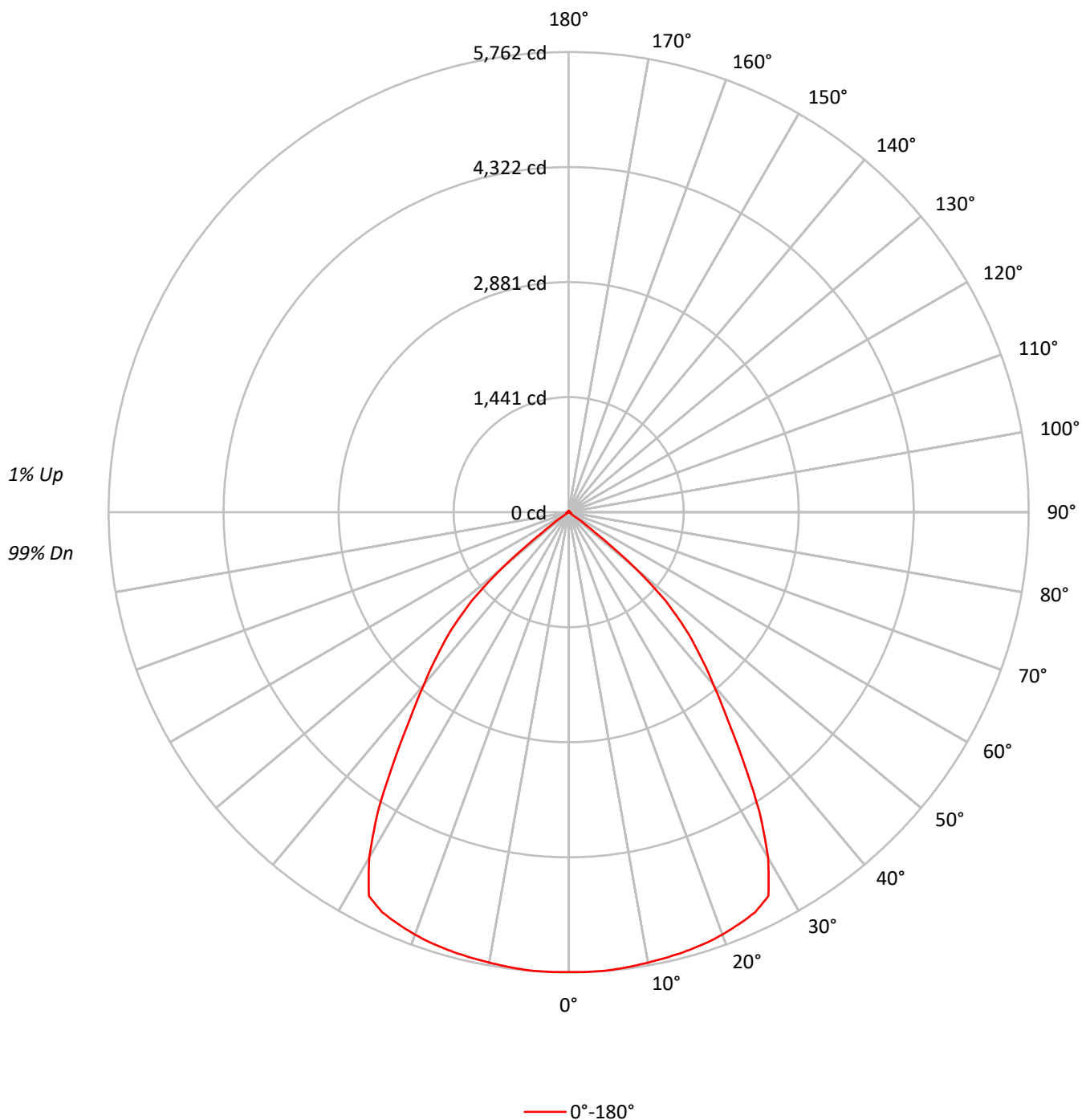
Lumens per Lamp: N/A
Luminaire Lumens: 8978.8 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.6
Input Voltage (V): 347
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
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°	43040
5°	39794
10°	37064
15°	34874
20°	33005
25°	31287
30°	27532
35°	20643
40°	15106
45°	11054
50°	5856
55°	299
60°	191
65°	174
70°	157
75°	122
80°	77
85°	41

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11054 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.6	6.1
10°-20°	1610.4	17.9
20°-30°	2520.0	28.1
30°-40°	2395.3	26.7
40°-50°	1554.1	17.3
50°-60°	232.1	2.6
60°-70°	30.2	0.3
70°-80°	20.3	0.2
80°-90°	6.9	0.1
90°-100°	8.7	0.1
100°-110°	9.3	0.1
110°-120°	8.7	0.1
120°-130°	8.2	0.1
130°-140°	8.5	0.1
140°-150°	7.8	0.1
150°-160°	5.9	0.1
160°-170°	2.9	0.0
170°-180°	0.8	0.0
0°-30°	4679.1	52.1
0°-40°	7074.3	78.8
0°-60°	8860.4	98.7
0°-90°	8917.9	99.3
90°-120°	26.7	0.3
90°-150°	51.3	0.6
90°-180°	61.0	0.7
0°-180°	8978.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5759	
5°	5759	549
15°	5690	1610
25°	5527	2520
35°	3814	2395
45°	2070	1554
55°	55	232
65°	30	30
75°	20	20
85°	6	6
90°	4	3
95°	9	7
105°	9	9
115°	9	9
125°	9	8
135°	11	9
145°	13	8
155°	13	6
165°	10	3
175°	8	1
180°	8	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5758.8
2.5°	5761.7
5°	5758.8
7.5°	5745.0
10°	5727.3
12.5°	5710.6
15°	5690.0
17.5°	5665.4
20°	5629.1
22.5°	5580.9
25°	5526.9
27.5°	5417.8
30°	4994.3
32.5°	4444.1
35°	3814.3
37.5°	3261.1
40°	2820.9
42.5°	2441.7
45°	2070.2
47.5°	1649.7
50°	1091.6
52.5°	415.6
55°	55.0
57.5°	37.3
60°	34.4
62.5°	32.4
65°	30.5
67.5°	28.5
70°	26.5
72.5°	22.6
75°	19.7
77.5°	15.7
80°	11.8
82.5°	8.8
85°	5.9
87.5°	2.9
90°	3.9
92.5°	7.9
95°	8.8
97.5°	8.8
100°	8.8
102.5°	8.8
105°	8.8
107.5°	8.8
110°	8.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	8.8
115°	8.8
117.5°	8.8
120°	8.8
122.5°	8.8
125°	8.8
127.5°	9.8
130°	9.8
132.5°	10.8
135°	10.8
137.5°	11.8
140°	11.8
142.5°	11.8
145°	12.8
147.5°	12.8
150°	12.8
152.5°	12.8
155°	12.8
157.5°	12.8
160°	11.8
162.5°	11.8
165°	9.8
167.5°	8.8
170°	8.8
172.5°	7.9
175°	7.9
177.5°	7.9
180°	7.9

(END OF REPORT)