

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: P709477

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L12_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709477
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(5000K_L12_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

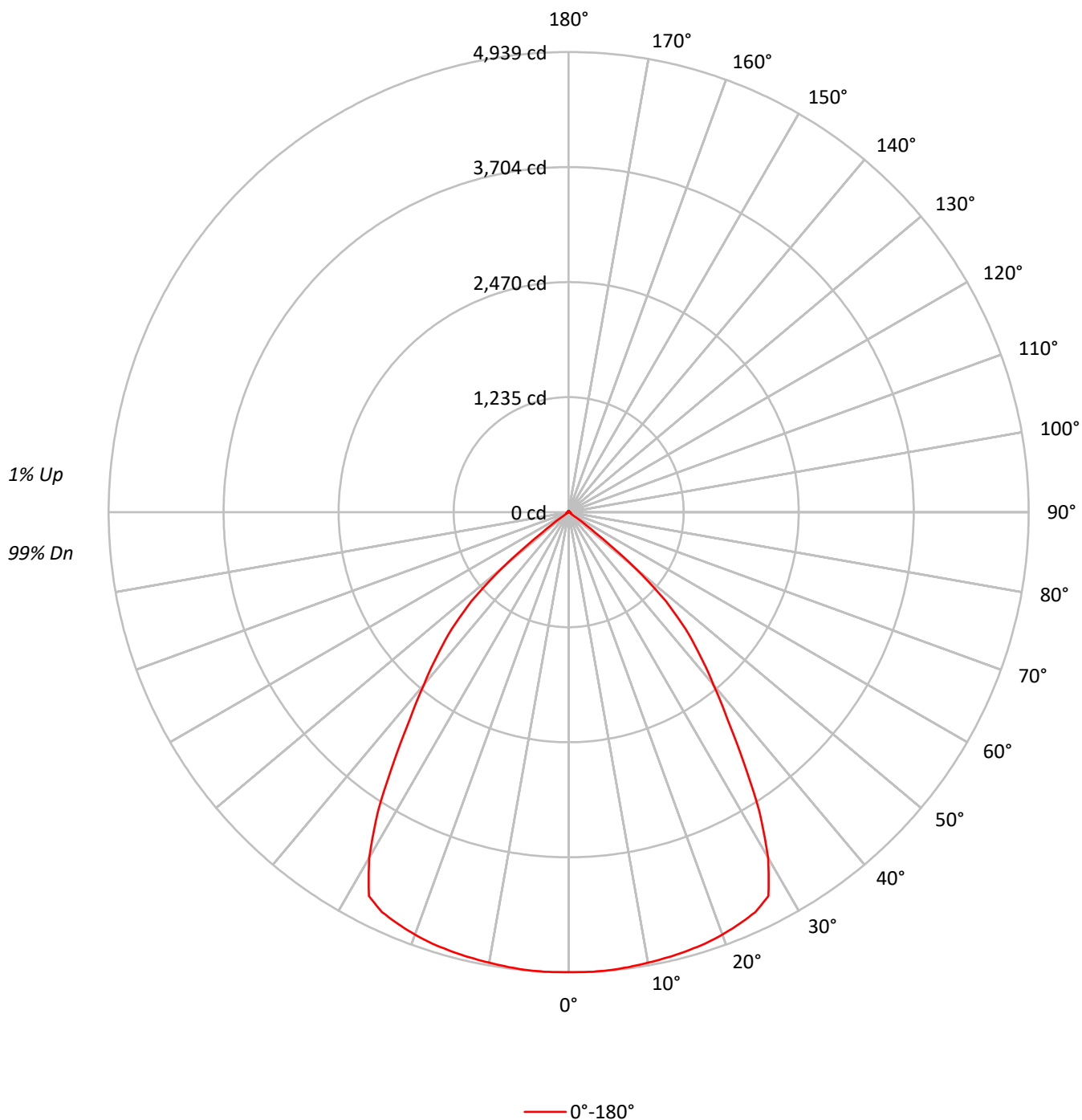
Lumens per Lamp: N/A
Luminaire Lumens: 7697.6 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 79.3
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

TEST NUMBER: P709477

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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	
RCR																						
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		101	101	101	
1	113	109	107	104		110	107	105	102		103	101	99		99	98	96		96	94	93	
2	106	100	96	92		104	99	94	91		95	92	89		92	89	87		89	87	85	
3	100	92	86	82		97	91	85	81		88	83	80		85	82	78		83	80	77	
4	93	85	78	74		91	84	78	73		81	76	72		79	75	71		77	73	70	
5	88	78	71	66		86	77	71	66		75	70	65		73	68	65		72	67	64	
6	82	72	65	60		81	71	65	60		70	64	60		68	63	59		67	62	59	
7	77	67	60	55		76	66	59	55		65	59	54		63	58	54		62	57	54	
8	73	62	55	50		71	61	55	50		60	54	50		59	54	50		58	53	49	
9	69	58	51	46		67	57	51	46		56	50	46		55	50	46		54	49	46	
10	65	54	47	43		64	53	47	43		52	46	42		51	46	42		51	46	42	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36897
5°	34115
10°	31774
15°	29896
20°	28294
25°	26821
30°	23603
35°	17697
40°	12951
45°	9476
50°	5021
55°	256
60°	164
65°	149
70°	135
75°	105
80°	66
85°	35

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.3	6.1
10°-20°	1380.6	17.9
20°-30°	2160.4	28.1
30°-40°	2053.4	26.7
40°-50°	1332.3	17.3
50°-60°	198.9	2.6
60°-70°	25.9	0.3
70°-80°	17.4	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°	4011.3	52.1
0°-40°	6064.7	78.8
0°-60°	7595.9	98.7
0°-90°	7645.2	99.3
90°-120°	23.1	0.3
90°-150°	44.1	0.6
90°-180°	52.0	0.7
0°-180°	7697.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4937	
5°	4937	470
15°	4878	1381
25°	4738	2160
35°	3270	2053
45°	1775	1332
55°	47	199
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°	4936.9
2.5°	4939.4
5°	4936.9
7.5°	4925.1
10°	4909.9
12.5°	4895.6
15°	4877.9
17.5°	4856.9
20°	4825.7
22.5°	4784.4
25°	4738.0
27.5°	4644.6
30°	4281.6
32.5°	3809.9
35°	3269.9
37.5°	2795.7
40°	2418.4
42.5°	2093.2
45°	1774.7
47.5°	1414.3
50°	935.8
52.5°	356.3
55°	47.1
57.5°	32.0
60°	29.5
62.5°	27.8
65°	26.1
67.5°	24.4
70°	22.8
72.5°	19.3
75°	16.9
77.5°	13.5
80°	10.1
82.5°	7.6
85°	5.0
87.5°	2.6
90°	3.3
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°	8.4
130°	8.4
132.5°	9.2
135°	9.2
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°	8.4
167.5°	7.6
170°	7.6
172.5°	6.8
175°	6.8
177.5°	6.8
180°	6.8

(END OF REPORT)