

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: P709467

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L18_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709467
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_L18_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 18,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

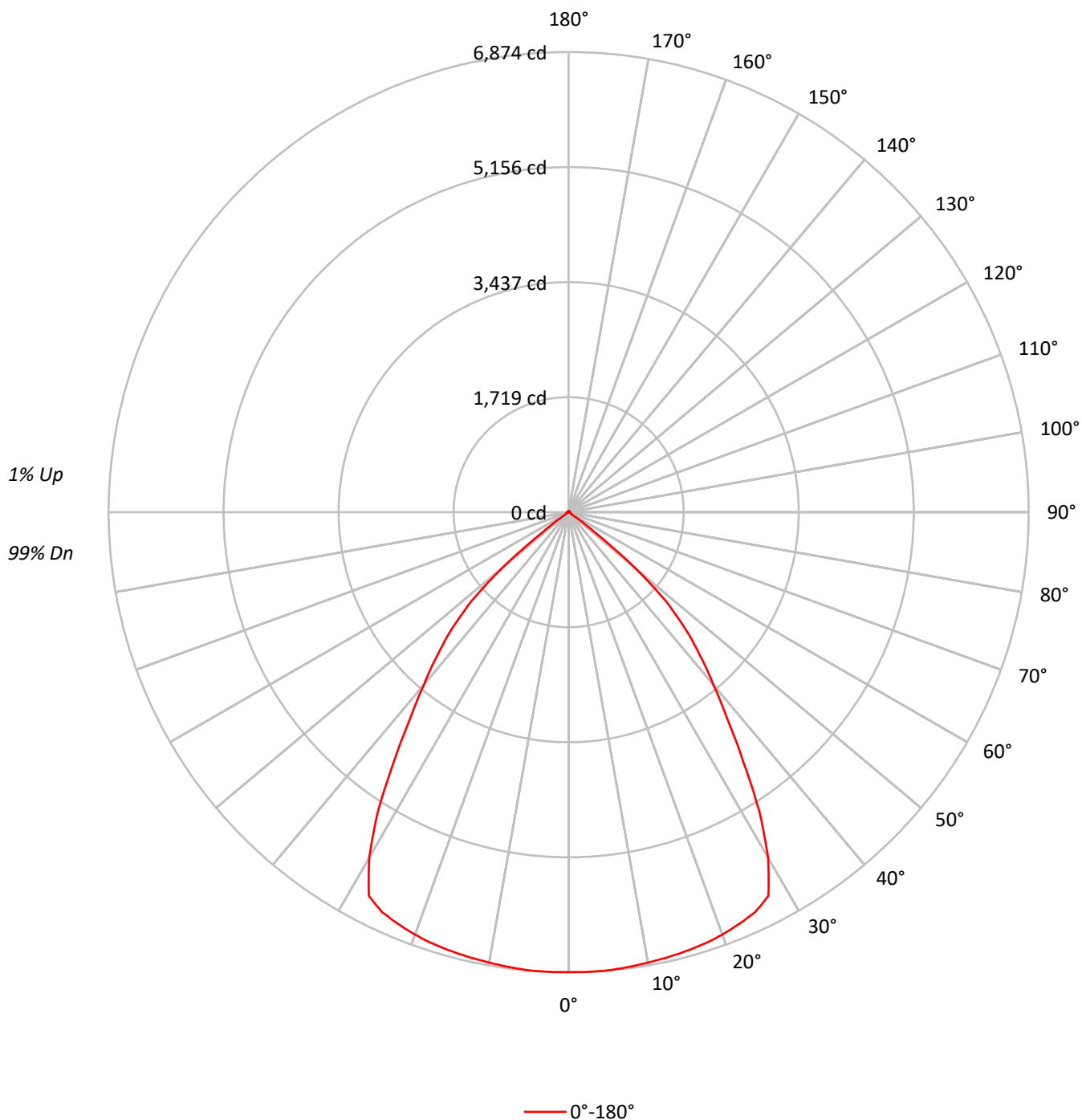
Lumens per Lamp: N/A
Luminaire Lumens: 10711.3 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 119.7
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					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°	51344
5°	47473
10°	44216
15°	41602
20°	39373
25°	37324
30°	32845
35°	24627
40°	18021
45°	13187
50°	6986
55°	356
60°	227
65°	208
70°	187
75°	145
80°	92
85°	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13187 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.5	6.1
10°-20°	1921.2	17.9
20°-30°	3006.3	28.1
30°-40°	2857.5	26.7
40°-50°	1853.9	17.3
50°-60°	276.9	2.6
60°-70°	36.0	0.3
70°-80°	24.3	0.2
80°-90°	8.3	0.1
90°-100°	10.3	0.1
100°-110°	11.1	0.1
110°-120°	10.4	0.1
120°-130°	9.8	0.1
130°-140°	10.2	0.1
140°-150°	9.3	0.1
150°-160°	7.0	0.1
160°-170°	3.5	0.0
170°-180°	0.9	0.0
0°-30°	5581.9	52.1
0°-40°	8439.4	78.8
0°-60°	10570.2	98.7
0°-90°	10638.8	99.3
90°-120°	31.9	0.3
90°-150°	61.1	0.6
90°-180°	73.0	0.7
0°-180°	10711.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6870	
5°	6870	654
15°	6788	1921
25°	6593	3006
35°	4550	2857
45°	2470	1854
55°	66	277
65°	36	36
75°	23	24
85°	7	7
90°	5	3
95°	10	8
105°	10	11
115°	10	10
125°	10	10
135°	13	10
145°	15	9
155°	15	7
165°	12	4
175°	9	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6870.0
2.5°	6873.5
5°	6870.0
7.5°	6853.6
10°	6832.5
12.5°	6812.6
15°	6787.9
17.5°	6758.7
20°	6715.2
22.5°	6657.8
25°	6593.3
27.5°	6463.2
30°	5958.1
32.5°	5301.6
35°	4550.3
37.5°	3890.4
40°	3365.2
42.5°	2912.8
45°	2469.7
47.5°	1968.0
50°	1302.2
52.5°	495.9
55°	65.6
57.5°	44.6
60°	41.0
62.5°	38.7
65°	36.4
67.5°	34.0
70°	31.6
72.5°	27.0
75°	23.4
77.5°	18.8
80°	14.0
82.5°	10.5
85°	7.1
87.5°	3.5
90°	4.6
92.5°	9.4
95°	10.5
97.5°	10.5
100°	10.5
102.5°	10.5
105°	10.5
107.5°	10.5
110°	10.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	10.5
115°	10.5
117.5°	10.5
120°	10.5
122.5°	10.5
125°	10.5
127.5°	11.7
130°	11.7
132.5°	12.9
135°	12.9
137.5°	14.0
140°	14.0
142.5°	14.0
145°	15.3
147.5°	15.3
150°	15.3
152.5°	15.3
155°	15.3
157.5°	15.3
160°	14.0
162.5°	14.0
165°	11.7
167.5°	10.5
170°	10.5
172.5°	9.4
175°	9.4
177.5°	9.4
180°	9.4

(END OF REPORT)