

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: P709454

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L15_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709454
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_L15_277V)
Description: PRENATALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

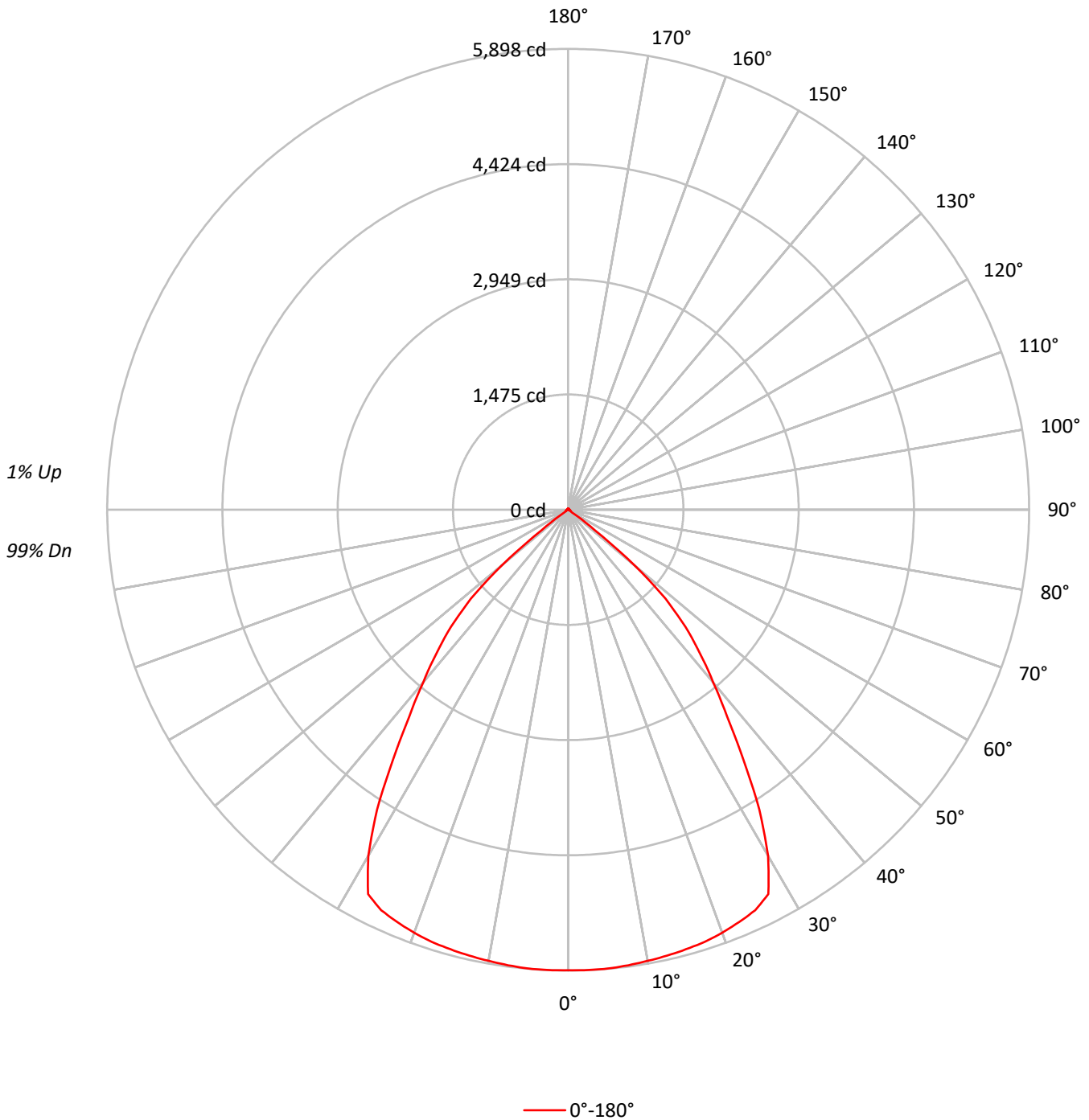
Lumens per Lamp: N/A
Luminaire Lumens: 9191.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.9
Input Voltage (V): 277
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°	44059
5°	40737
10°	37941
15°	35699
20°	33786
25°	32028
30°	28184
35°	21132
40°	15464
45°	11316
50°	5995
55°	306
60°	195
65°	178
70°	160
75°	125
80°	79
85°	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.6	6.1
10°-20°	1648.6	17.9
20°-30°	2579.7	28.1
30°-40°	2452.0	26.7
40°-50°	1590.9	17.3
50°-60°	237.5	2.6
60°-70°	30.9	0.3
70°-80°	20.8	0.2
80°-90°	7.1	0.1
90°-100°	9.0	0.1
100°-110°	9.6	0.1
110°-120°	9.0	0.1
120°-130°	8.5	0.1
130°-140°	8.7	0.1
140°-150°	8.0	0.1
150°-160°	6.0	0.1
160°-170°	3.0	0.0
170°-180°	0.8	0.0
0°-30°	4789.9	52.1
0°-40°	7241.9	78.8
0°-60°	9070.3	98.7
0°-90°	9129.1	99.3
90°-120°	27.6	0.3
90°-150°	52.8	0.6
90°-180°	63.0	0.7
0°-180°	9191.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5895	
5°	5895	562
15°	5825	1649
25°	5658	2580
35°	3905	2452
45°	2119	1591
55°	56	238
65°	31	31
75°	20	21
85°	6	6
90°	4	3
95°	9	7
105°	9	10
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°	5895.2
2.5°	5898.1
5°	5895.2
7.5°	5881.1
10°	5862.9
12.5°	5845.8
15°	5824.7
17.5°	5799.6
20°	5762.4
22.5°	5713.1
25°	5657.8
27.5°	5546.1
30°	5112.6
32.5°	4549.4
35°	3904.6
37.5°	3338.3
40°	2887.7
42.5°	2499.5
45°	2119.3
47.5°	1688.7
50°	1117.5
52.5°	425.4
55°	56.3
57.5°	38.2
60°	35.2
62.5°	33.2
65°	31.2
67.5°	29.2
70°	27.1
72.5°	23.1
75°	20.1
77.5°	16.1
80°	12.0
82.5°	9.1
85°	6.0
87.5°	3.1
90°	4.0
92.5°	8.1
95°	9.1
97.5°	9.1
100°	9.1
102.5°	9.1
105°	9.1
107.5°	9.1
110°	9.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	9.1
115°	9.1
117.5°	9.1
120°	9.1
122.5°	9.1
125°	9.1
127.5°	10.1
130°	10.1
132.5°	11.1
135°	11.1
137.5°	12.0
140°	12.0
142.5°	12.0
145°	13.1
147.5°	13.1
150°	13.1
152.5°	13.1
155°	13.1
157.5°	13.1
160°	12.0
162.5°	12.0
165°	10.1
167.5°	9.1
170°	9.1
172.5°	8.1
175°	8.1
177.5°	8.1
180°	8.1

(END OF REPORT)