

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: P709455

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L18_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709455
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_L18_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 18,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

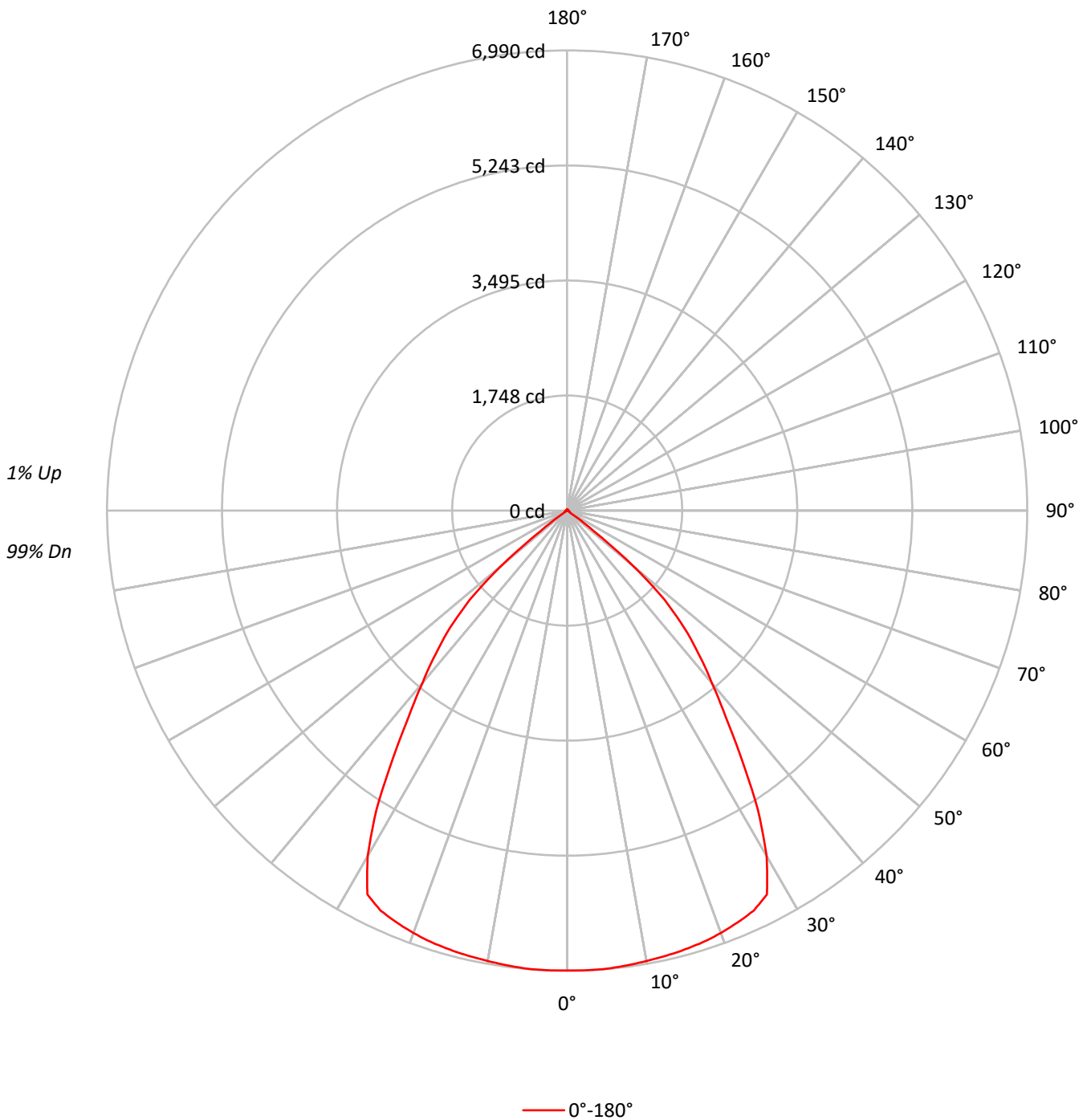
Lumens per Lamp: N/A
Luminaire Lumens: 10892.6 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 120.3
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°	52212
5°	48275
10°	44963
15°	42307
20°	40039
25°	37956
30°	33400
35°	25043
40°	18326
45°	13410
50°	7105
55°	363
60°	231
65°	210
70°	191
75°	148
80°	94
85°	51

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13410 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.5	6.1
10°-20°	1953.7	17.9
20°-30°	3057.1	28.1
30°-40°	2905.8	26.7
40°-50°	1885.3	17.3
50°-60°	281.5	2.6
60°-70°	36.6	0.3
70°-80°	24.7	0.2
80°-90°	8.4	0.1
90°-100°	10.5	0.1
100°-110°	11.3	0.1
110°-120°	10.6	0.1
120°-130°	10.0	0.1
130°-140°	10.4	0.1
140°-150°	9.4	0.1
150°-160°	7.1	0.1
160°-170°	3.6	0.0
170°-180°	0.9	0.0
0°-30°	5676.3	52.1
0°-40°	8582.1	78.8
0°-60°	10749.0	98.7
0°-90°	10818.7	99.3
90°-120°	32.5	0.3
90°-150°	62.3	0.6
90°-180°	74.0	0.7
0°-180°	10892.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6986	
5°	6986	666
15°	6903	1954
25°	6705	3057
35°	4627	2906
45°	2511	1885
55°	67	282
65°	37	37
75°	24	25
85°	7	7
90°	5	3
95°	11	9
105°	11	11
115°	11	11
125°	11	10
135°	13	10
145°	16	9
155°	16	7
165°	12	4
175°	10	1
180°	10	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6986.1
2.5°	6989.8
5°	6986.1
7.5°	6969.4
10°	6948.0
12.5°	6927.7
15°	6902.8
17.5°	6872.9
20°	6828.8
22.5°	6770.4
25°	6704.9
27.5°	6572.6
30°	6058.8
32.5°	5391.3
35°	4627.2
37.5°	3956.2
40°	3422.1
42.5°	2962.0
45°	2511.4
47.5°	2001.4
50°	1324.3
52.5°	504.2
55°	66.8
57.5°	45.3
60°	41.7
62.5°	39.4
65°	36.9
67.5°	34.6
70°	32.2
72.5°	27.4
75°	23.9
77.5°	19.1
80°	14.3
82.5°	10.7
85°	7.2
87.5°	3.5
90°	4.8
92.5°	9.5
95°	10.7
97.5°	10.7
100°	10.7
102.5°	10.7
105°	10.7
107.5°	10.7
110°	10.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	10.7
115°	10.7
117.5°	10.7
120°	10.7
122.5°	10.7
125°	10.7
127.5°	11.9
130°	11.9
132.5°	13.2
135°	13.2
137.5°	14.3
140°	14.3
142.5°	14.3
145°	15.5
147.5°	15.5
150°	15.5
152.5°	15.5
155°	15.5
157.5°	15.5
160°	14.3
162.5°	14.3
165°	11.9
167.5°	10.7
170°	10.7
172.5°	9.5
175°	9.5
177.5°	9.5
180°	9.5

(END OF REPORT)