

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: P709452

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L18_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L18_277V)
Description: PRENATALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 18,000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

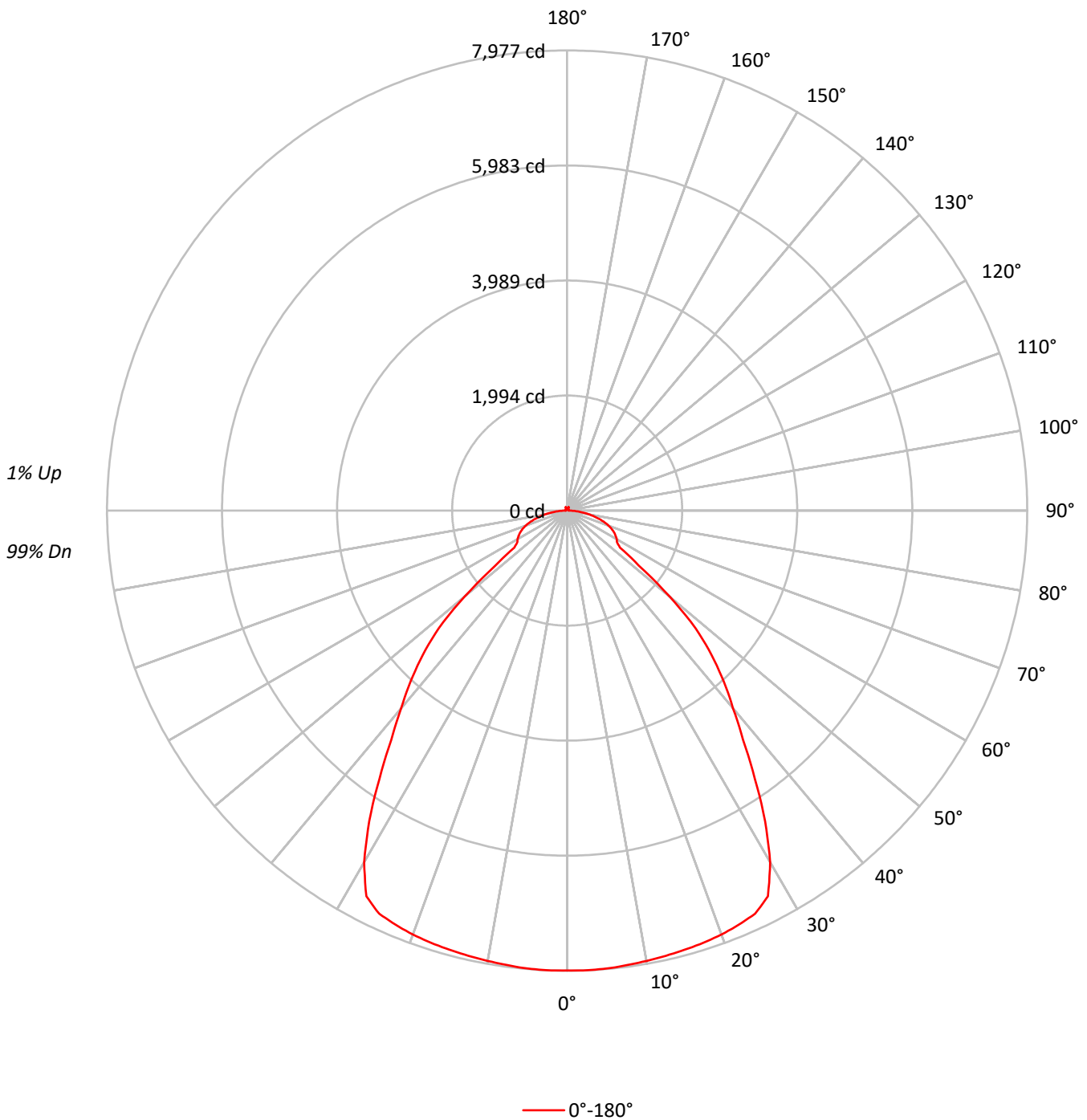
Lumens per Lamp: N/A
Luminaire Lumens: 15851.8 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 119.7
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	110	110	110	105	105	105	101	101	101	99
1	110	106	103	100	108	104	101	98	100	97	95	96	93	92	92	90	89	87
2	102	95	90	85	100	93	88	84	90	85	82	86	83	80	83	80	78	76
3	95	86	79	74	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	66	62	69	65	61	59
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	77	65	57	51	75	64	57	51	62	56	51	60	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	45	54	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	50	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59589
5°	55063
10°	51295
15°	48306
20°	45855
25°	43649
30°	38799
35°	30713
40°	23969
45°	18932
50°	12450
55°	6067
60°	5495
65°	5126
70°	4528
75°	3646
80°	2588
85°	1427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.2	4.8
10°-20°	2232.0	14.1
20°-30°	3514.6	22.2
30°-40°	3552.9	22.4
40°-50°	2686.4	16.9
50°-60°	1192.6	7.5
60°-70°	883.2	5.6
70°-80°	617.3	3.9
80°-90°	222.9	1.4
90°-100°	24.7	0.2
100°-110°	24.9	0.2
110°-120°	24.1	0.2
120°-130°	23.9	0.2
130°-140°	26.3	0.2
140°-150°	27.6	0.2
150°-160°	26.7	0.2
160°-170°	10.8	0.1
170°-180°	2.0	0.0
0°-30°	6505.8	41.0
0°-40°	10058.7	63.5
0°-60°	13937.6	87.9
0°-90°	15661.0	98.8
90°-120°	73.6	0.5
90°-150°	151.3	1.0
90°-180°	191.0	1.2
0°-180°	15851.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7973	
5°	7968	759
15°	7882	2232
25°	7710	3515
35°	5675	3553
45°	3546	2686
55°	1117	1193
65°	899	883
75°	588	617
85°	203	205
90°	24	24
95°	22	19
105°	24	25
115°	25	24
125°	26	24
135°	34	26
145°	43	28
155°	60	27
165°	31	11
175°	21	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7973.2
2.5°	7976.7
5°	7968.5
7.5°	7948.6
10°	7926.4
12.5°	7905.2
15°	7881.7
17.5°	7855.9
20°	7820.7
22.5°	7771.5
25°	7710.5
27.5°	7538.0
30°	7038.2
32.5°	6387.0
35°	5674.9
37.5°	5009.6
40°	4475.9
42.5°	4019.4
45°	3545.5
47.5°	3025.8
50°	2320.6
52.5°	1566.3
55°	1116.9
57.5°	1025.4
60°	991.3
62.5°	949.1
65°	898.7
67.5°	838.9
70°	764.9
72.5°	680.4
75°	587.8
77.5°	491.6
80°	394.2
82.5°	298.0
85°	202.9
87.5°	109.2
90°	23.5
92.5°	21.1
95°	22.3
97.5°	23.5
100°	23.5
102.5°	23.5
105°	23.5
107.5°	23.5
110°	23.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	23.5
115°	24.7
117.5°	24.7
120°	24.7
122.5°	25.8
125°	25.8
127.5°	28.1
130°	29.3
132.5°	31.7
135°	34.0
137.5°	36.4
140°	38.7
142.5°	41.1
145°	43.4
147.5°	46.9
150°	51.6
152.5°	56.3
155°	59.8
157.5°	61.0
160°	57.5
162.5°	50.5
165°	30.6
167.5°	22.3
170°	22.3
172.5°	21.1
175°	21.1
177.5°	21.1
180°	21.1

(END OF REPORT)