

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: P709462

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L12_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709462
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(5000K_L12_277V)
Description: PRENATALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

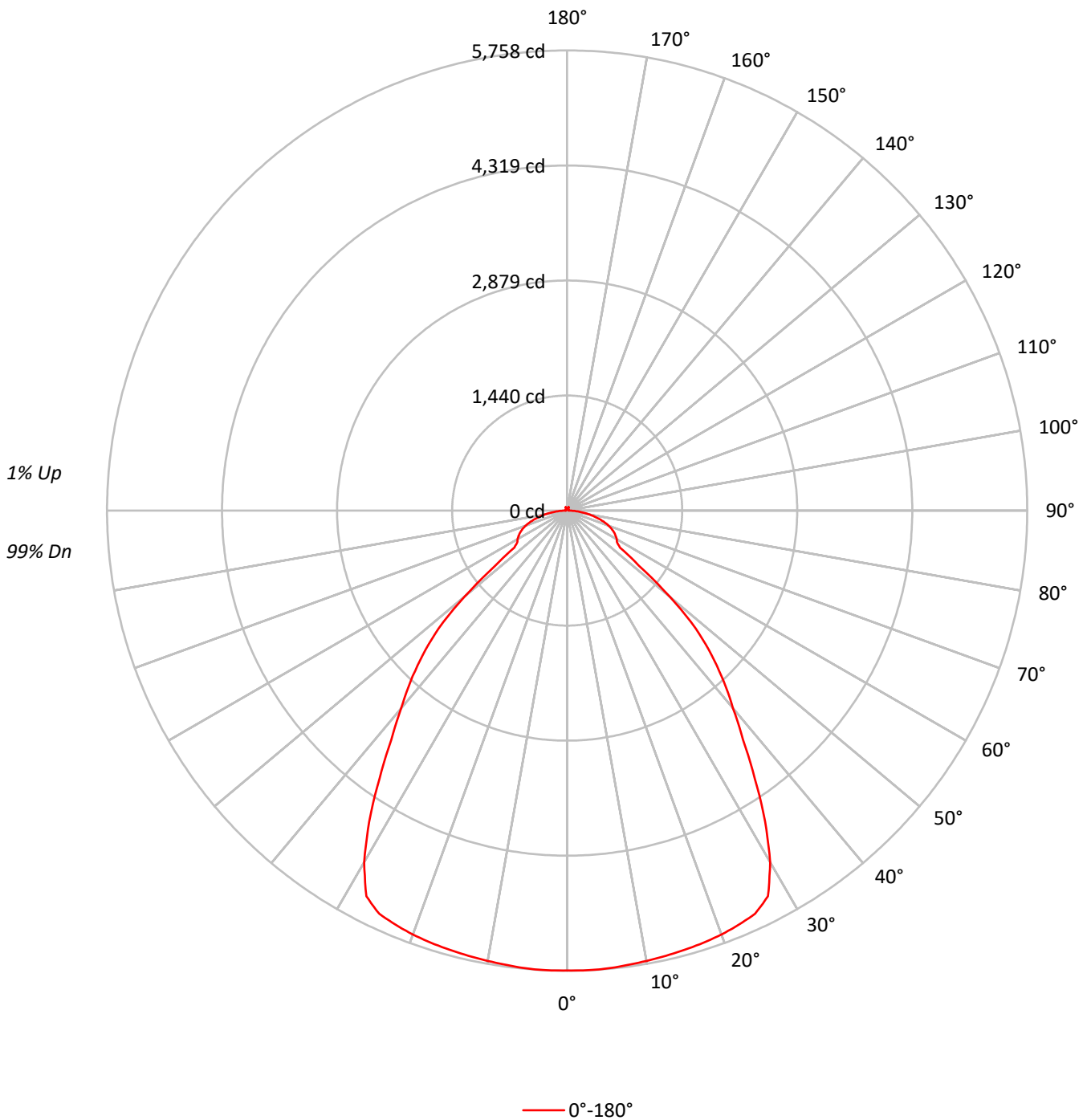
Lumens per Lamp: N/A
Luminaire Lumens: 11442.8 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 79.3
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	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°	43015
5°	39749
10°	37027
15°	34870
20°	33101
25°	31508
30°	28008
35°	22170
40°	17302
45°	13666
50°	8987
55°	4380
60°	3967
65°	3700
70°	3269
75°	2632
80°	1868
85°	1030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13666 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.0	4.8
10°-20°	1611.2	14.1
20°-30°	2537.1	22.2
30°-40°	2564.7	22.4
40°-50°	1939.2	16.9
50°-60°	860.9	7.5
60°-70°	637.5	5.6
70°-80°	445.6	3.9
80°-90°	160.9	1.4
90°-100°	17.8	0.2
100°-110°	18.0	0.2
110°-120°	17.4	0.2
120°-130°	17.3	0.2
130°-140°	19.0	0.2
140°-150°	19.9	0.2
150°-160°	19.3	0.2
160°-170°	7.8	0.1
170°-180°	1.5	0.0
0°-30°	4696.2	41.0
0°-40°	7260.9	63.5
0°-60°	10061.0	87.9
0°-90°	11305.0	98.8
90°-120°	53.2	0.5
90°-150°	109.3	1.0
90°-180°	138.0	1.2
0°-180°	11442.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5756	
5°	5752	548
15°	5690	1611
25°	5566	2537
35°	4096	2565
45°	2559	1939
55°	806	861
65°	649	638
75°	424	446
85°	146	148
90°	17	18
95°	16	13
105°	17	18
115°	18	17
125°	19	17
135°	25	19
145°	31	20
155°	43	19
165°	22	8
175°	15	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5755.5
2.5°	5758.1
5°	5752.2
7.5°	5737.8
10°	5721.7
12.5°	5706.5
15°	5689.5
17.5°	5670.8
20°	5645.5
22.5°	5609.9
25°	5565.8
27.5°	5441.3
30°	5080.6
32.5°	4610.6
35°	4096.4
37.5°	3616.2
40°	3230.9
42.5°	2901.5
45°	2559.3
47.5°	2184.2
50°	1675.2
52.5°	1130.7
55°	806.3
57.5°	740.2
60°	715.6
62.5°	685.1
65°	648.7
67.5°	605.6
70°	552.1
72.5°	491.2
75°	424.3
77.5°	354.8
80°	284.5
82.5°	215.1
85°	146.5
87.5°	78.8
90°	17.0
92.5°	15.2
95°	16.1
97.5°	17.0
100°	17.0
102.5°	17.0
105°	17.0
107.5°	17.0
110°	17.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	17.0
115°	17.8
117.5°	17.8
120°	17.8
122.5°	18.7
125°	18.7
127.5°	20.3
130°	21.1
132.5°	22.9
135°	24.6
137.5°	26.3
140°	27.9
142.5°	29.6
145°	31.3
147.5°	33.9
150°	37.2
152.5°	40.7
155°	43.2
157.5°	44.0
160°	41.5
162.5°	36.4
165°	22.0
167.5°	16.1
170°	16.1
172.5°	15.2
175°	15.2
177.5°	15.2
180°	15.2

(END OF REPORT)