

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: P709463

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709463
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_L15_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

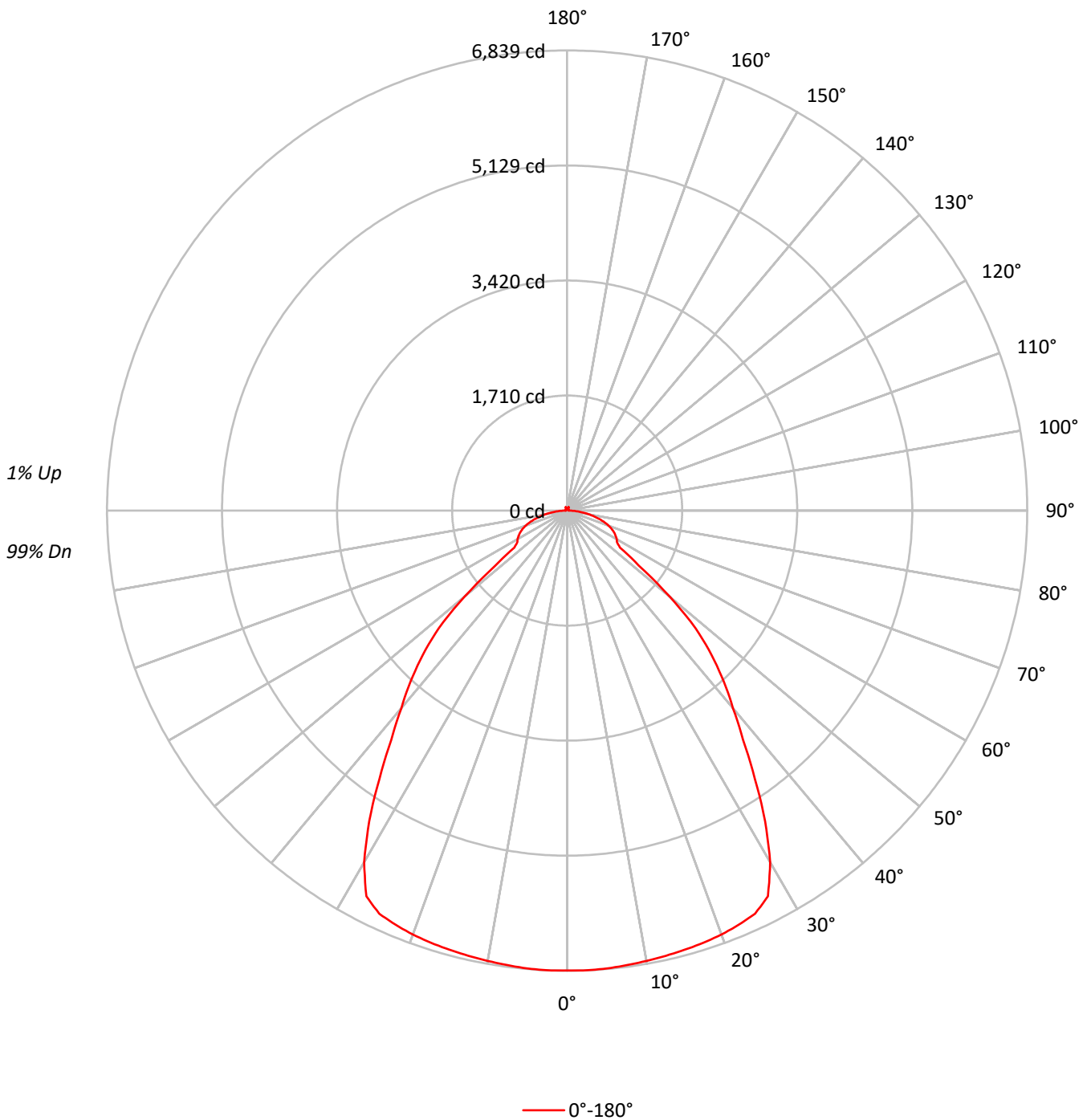
Lumens per Lamp: N/A
Luminaire Lumens: 13589.9 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 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	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°	51087
5°	47207
10°	43976
15°	41414
20°	39312
25°	37420
30°	33263
35°	26331
40°	20549
45°	16230
50°	10674
55°	5201
60°	4711
65°	4395
70°	3883
75°	3126
80°	2219
85°	1224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16230 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.8	4.8
10°-20°	1913.5	14.1
20°-30°	3013.1	22.2
30°-40°	3046.0	22.4
40°-50°	2303.1	16.9
50°-60°	1022.4	7.5
60°-70°	757.2	5.6
70°-80°	529.2	3.9
80°-90°	191.0	1.4
90°-100°	21.1	0.2
100°-110°	21.3	0.2
110°-120°	20.6	0.2
120°-130°	20.5	0.2
130°-140°	22.5	0.2
140°-150°	23.7	0.2
150°-160°	22.9	0.2
160°-170°	9.2	0.1
170°-180°	1.8	0.0
0°-30°	5577.5	41.0
0°-40°	8623.5	63.5
0°-60°	11949.0	87.9
0°-90°	13426.4	98.8
90°-120°	63.0	0.5
90°-150°	129.6	1.0
90°-180°	164.0	1.2
0°-180°	13589.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6836	
5°	6832	651
15°	6757	1914
25°	6610	3013
35°	4865	3046
45°	3040	2303
55°	958	1022
65°	770	757
75°	504	529
85°	174	175
90°	20	21
95°	19	16
105°	20	21
115°	21	21
125°	22	20
135°	29	23
145°	37	24
155°	51	23
165°	26	9
175°	18	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6835.6
2.5°	6838.6
5°	6831.6
7.5°	6814.4
10°	6795.4
12.5°	6777.2
15°	6757.1
17.5°	6735.0
20°	6704.8
22.5°	6662.6
25°	6610.3
27.5°	6462.4
30°	6034.0
32.5°	5475.8
35°	4865.2
37.5°	4294.8
40°	3837.2
42.5°	3445.9
45°	3039.6
47.5°	2594.1
50°	1989.6
52.5°	1342.8
55°	957.5
57.5°	879.1
60°	849.9
62.5°	813.7
65°	770.5
67.5°	719.2
70°	655.8
72.5°	583.4
75°	503.9
77.5°	421.4
80°	337.9
82.5°	255.4
85°	174.0
87.5°	93.5
90°	20.1
92.5°	18.2
95°	19.1
97.5°	20.1
100°	20.1
102.5°	20.1
105°	20.1
107.5°	20.1
110°	20.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	20.1
115°	21.1
117.5°	21.1
120°	21.1
122.5°	22.1
125°	22.1
127.5°	24.2
130°	25.2
132.5°	27.1
135°	29.2
137.5°	31.2
140°	33.2
142.5°	35.2
145°	37.2
147.5°	40.3
150°	44.3
152.5°	48.2
155°	51.3
157.5°	52.3
160°	49.3
162.5°	43.2
165°	26.1
167.5°	19.1
170°	19.1
172.5°	18.2
175°	18.2
177.5°	18.2
180°	18.2

(END OF REPORT)