

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: P709488

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L18_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709488
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: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L18_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 18,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

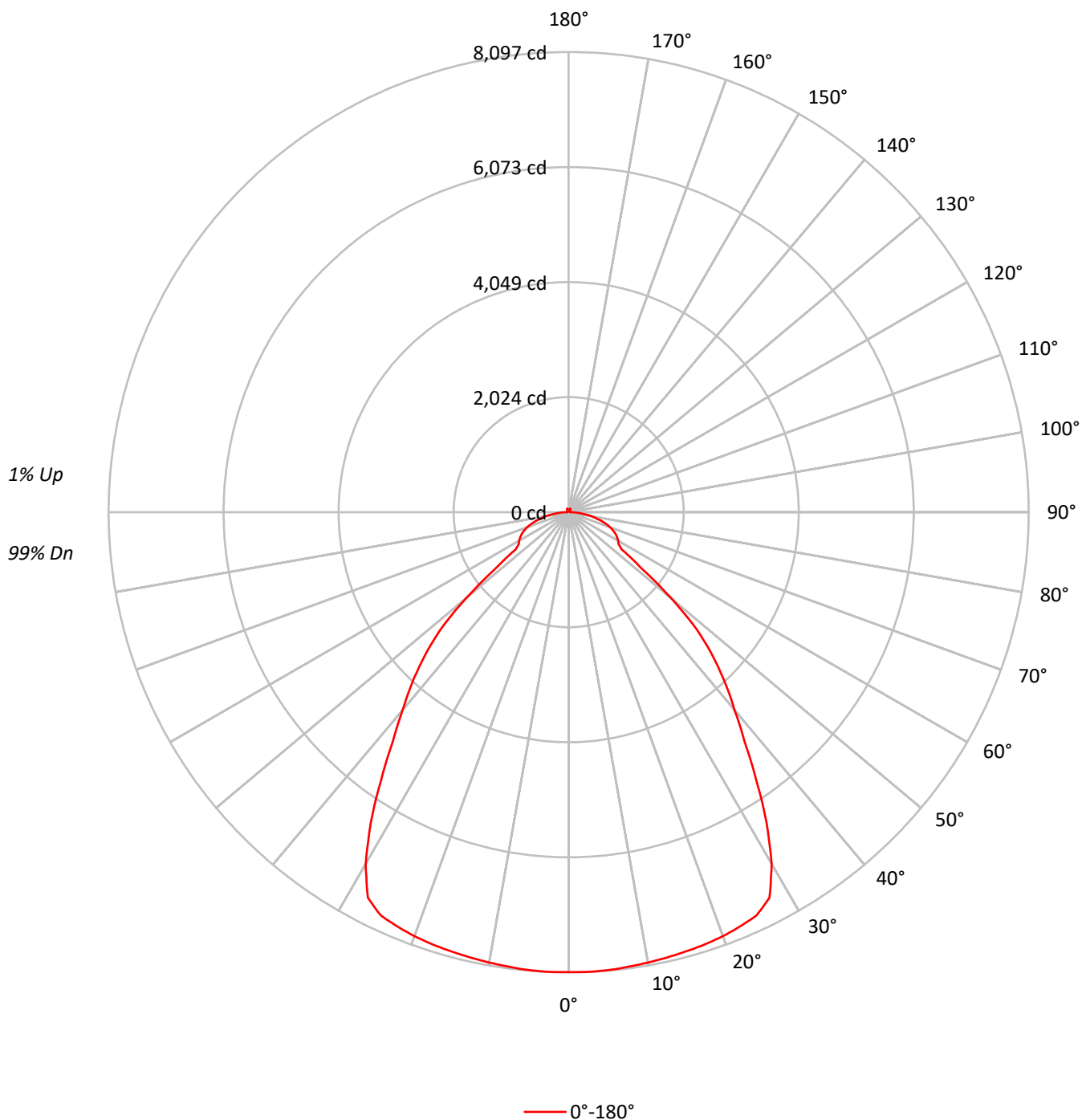
Lumens per Lamp: N/A
Luminaire Lumens: 16090.4 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 120.3
Input Voltage (V): 347
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		101
1	110	106	103	100	108	104	101	98	100	97	95		96	93	92		92
2	102	95	90	85	100	93	88	84	90	85	82		86	83	80		83
3	95	86	79	74	92	84	78	73	81	76	71		79	74	70		76
4	88	78	70	65	86	77	70	64	74	68	63		72	66	62		69
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	77	65	57	51	75	64	57	51	62	56	51		60	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	45		54
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		50
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60487
5°	55893
10°	52066
15°	49034
20°	46545
25°	44305
30°	39383
35°	31175
40°	24330
45°	19216
50°	12638
55°	6158
60°	5578
65°	5203
70°	4597
75°	3701
80°	2627
85°	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19216 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.6	4.8
10°-20°	2265.6	14.1
20°-30°	3567.5	22.2
30°-40°	3606.4	22.4
40°-50°	2726.8	16.9
50°-60°	1210.5	7.5
60°-70°	896.5	5.6
70°-80°	626.6	3.9
80°-90°	226.3	1.4
90°-100°	25.0	0.2
100°-110°	25.3	0.2
110°-120°	24.4	0.2
120°-130°	24.3	0.2
130°-140°	26.6	0.2
140°-150°	28.0	0.2
150°-160°	27.1	0.2
160°-170°	10.9	0.1
170°-180°	2.1	0.0
0°-30°	6603.7	41.0
0°-40°	10210.1	63.5
0°-60°	14147.4	87.9
0°-90°	15896.7	98.8
90°-120°	74.7	0.5
90°-150°	153.6	1.0
90°-180°	194.0	1.2
0°-180°	16090.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8093	
5°	8088	771
15°	8000	2266
25°	7826	3568
35°	5760	3606
45°	3599	2727
55°	1134	1211
65°	912	896
75°	597	627
85°	206	208
90°	24	25
95°	23	19
105°	24	25
115°	25	24
125°	26	24
135°	35	27
145°	44	28
155°	61	27
165°	31	11
175°	21	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8093.3
2.5°	8096.8
5°	8088.5
7.5°	8068.3
10°	8045.6
12.5°	8024.2
15°	8000.4
17.5°	7974.2
20°	7938.4
22.5°	7888.4
25°	7826.5
27.5°	7651.5
30°	7144.1
32.5°	6483.2
35°	5760.3
37.5°	5085.1
40°	4543.3
42.5°	4079.9
45°	3598.8
47.5°	3071.3
50°	2355.6
52.5°	1589.8
55°	1133.7
57.5°	1040.9
60°	1006.3
62.5°	963.4
65°	912.2
67.5°	851.4
70°	776.4
72.5°	690.7
75°	596.6
77.5°	499.0
80°	400.1
82.5°	302.5
85°	206.0
87.5°	110.8
90°	23.9
92.5°	21.4
95°	22.6
97.5°	23.9
100°	23.9
102.5°	23.9
105°	23.9
107.5°	23.9
110°	23.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	23.9
115°	25.0
117.5°	25.0
120°	25.0
122.5°	26.2
125°	26.2
127.5°	28.6
130°	29.8
132.5°	32.1
135°	34.6
137.5°	36.9
140°	39.3
142.5°	41.6
145°	44.1
147.5°	47.6
150°	52.4
152.5°	57.2
155°	60.7
157.5°	62.0
160°	58.3
162.5°	51.2
165°	30.9
167.5°	22.6
170°	22.6
172.5°	21.4
175°	21.4
177.5°	21.4
180°	21.4

(END OF REPORT)