

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: P709448

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

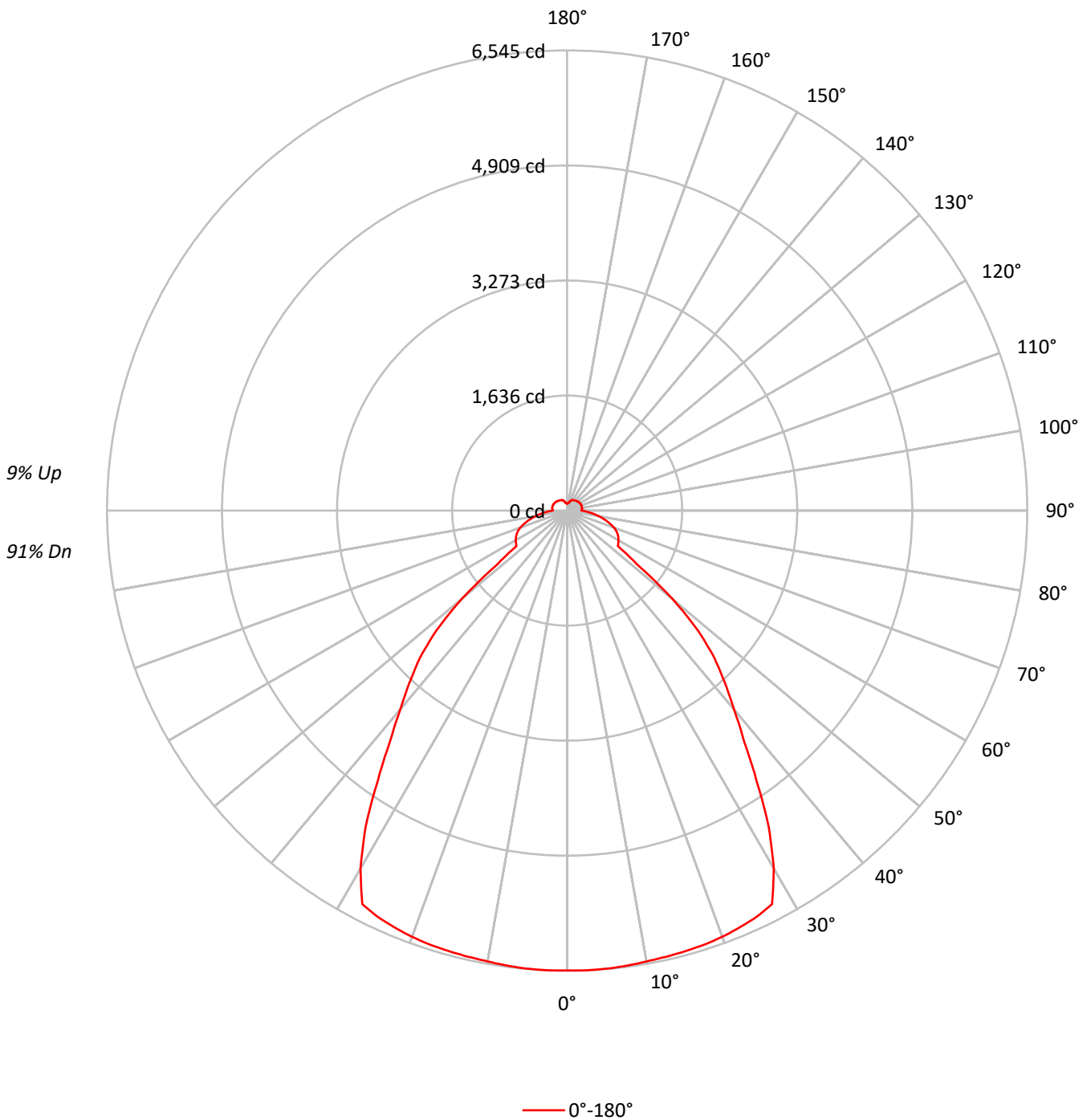
Lumens per Lamp: N/A
Luminaire Lumens: 14530.0 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.7
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	79
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	69
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	61
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	48
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	43
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	39
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	36
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	32
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48888
5°	45195
10°	42134
15°	39771
20°	37827
25°	36092
30°	32411
35°	25444
40°	19766
45°	15789
50°	10476
55°	4781
60°	4682
65°	4519
70°	4200
75°	3647
80°	2993
85°	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15789 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.3	4.3
10°-20°	1837.9	12.6
20°-30°	2918.4	20.1
30°-40°	2949.3	20.3
40°-50°	2231.8	15.4
50°-60°	976.8	6.7
60°-70°	780.1	5.4
70°-80°	618.6	4.3
80°-90°	356.8	2.5
90°-100°	229.8	1.6
100°-110°	228.7	1.6
110°-120°	212.1	1.5
120°-130°	183.6	1.3
130°-140°	148.6	1.0
140°-150°	111.7	0.8
150°-160°	75.5	0.5
160°-170°	37.0	0.3
170°-180°	10.1	0.1
0°-30°	5379.5	37.0
0°-40°	8328.8	57.3
0°-60°	11537.4	79.4
0°-90°	13292.9	91.5
90°-120°	670.6	4.6
90°-150°	1114.5	7.7
90°-180°	1237.0	8.5
0°-180°	14530.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6541	
5°	6540	623
15°	6489	1838
25°	6376	2918
35°	4701	2949
45°	2957	2232
55°	880	977
65°	792	780
75°	588	619
85°	327	293
90°	201	120
95°	212	174
105°	217	229
115°	214	212
125°	205	184
135°	191	149
145°	178	112
155°	164	76
165°	125	37
175°	103	10
180°	99	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6541.4
2.5°	6545.4
5°	6540.4
7.5°	6527.6
10°	6510.8
12.5°	6500.0
15°	6489.1
17.5°	6475.3
20°	6451.6
22.5°	6417.1
25°	6375.7
27.5°	6311.5
30°	5879.4
32.5°	5333.8
35°	4701.3
37.5°	4136.0
40°	3691.0
42.5°	3318.1
45°	2957.0
47.5°	2521.9
50°	1952.6
52.5°	1252.0
55°	880.1
57.5°	862.3
60°	844.6
62.5°	820.9
65°	792.3
67.5°	756.8
70°	709.4
72.5°	650.2
75°	588.0
77.5°	521.9
80°	455.8
82.5°	391.7
85°	326.6
87.5°	262.4
90°	201.3
92.5°	208.2
95°	212.1
97.5°	214.1
100°	215.1
102.5°	216.1
105°	217.1
107.5°	216.1
110°	216.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	215.1
115°	214.1
117.5°	212.1
120°	210.2
122.5°	207.2
125°	205.2
127.5°	201.3
130°	198.3
132.5°	195.4
135°	191.4
137.5°	188.4
140°	184.5
142.5°	181.5
145°	177.6
147.5°	173.6
150°	170.7
152.5°	167.7
155°	163.8
157.5°	157.9
160°	151.0
162.5°	141.1
165°	125.3
167.5°	115.4
170°	110.5
172.5°	106.6
175°	102.6
177.5°	100.6
180°	98.7

(END OF REPORT)