

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: P709459

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709459
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(5000K_L12_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

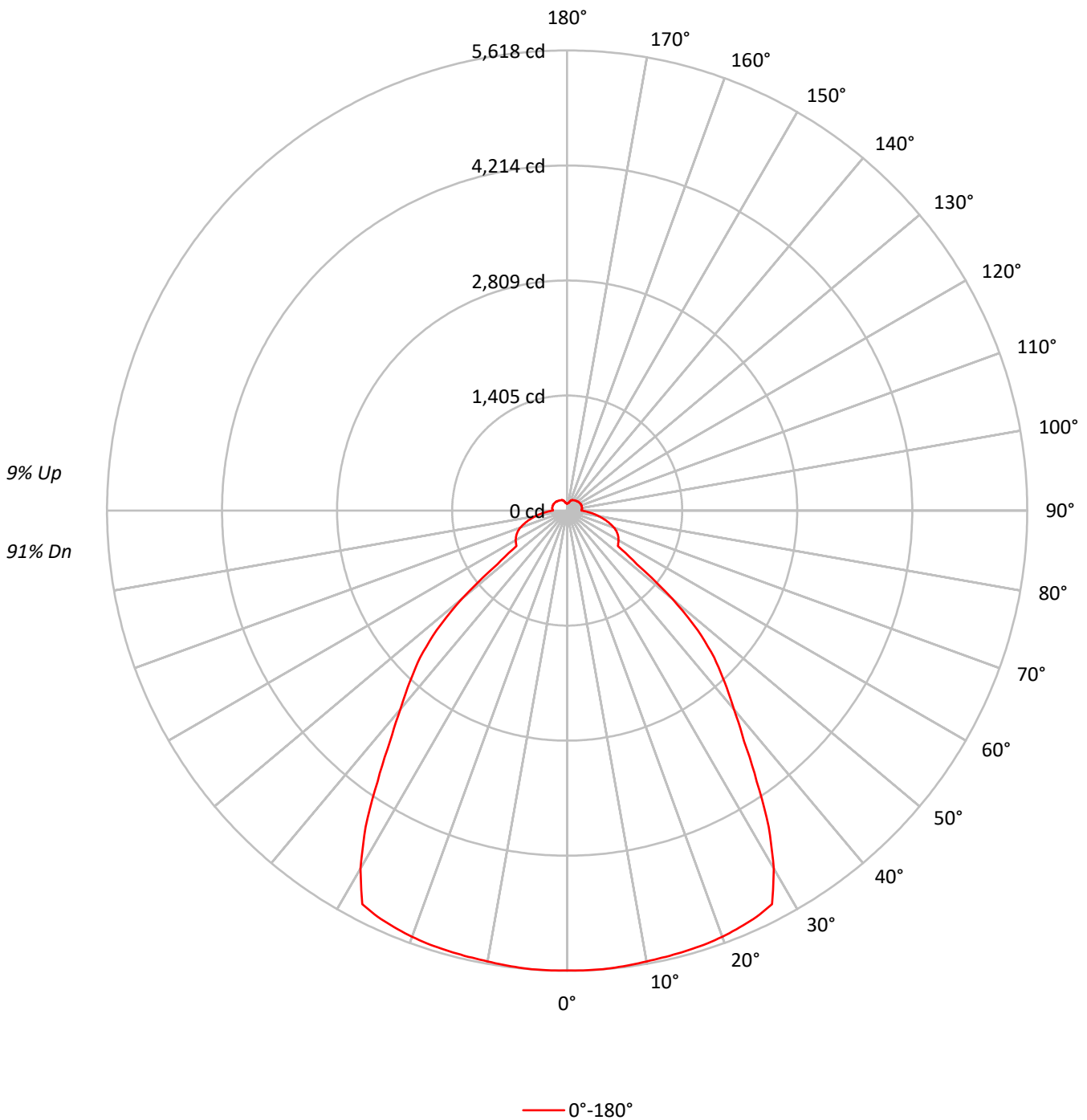
Lumens per Lamp: N/A
Luminaire Lumens: 12472.0 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 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	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°	41964
5°	38794
10°	36167
15°	34138
20°	32469
25°	30981
30°	27821
35°	21841
40°	16966
45°	13553
50°	8992
55°	4103
60°	4018
65°	3879
70°	3605
75°	3131
80°	2569
85°	1972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	4.3
10°-20°	1577.6	12.6
20°-30°	2505.0	20.1
30°-40°	2531.6	20.3
40°-50°	1915.7	15.4
50°-60°	838.5	6.7
60°-70°	669.6	5.4
70°-80°	531.0	4.3
80°-90°	306.3	2.5
90°-100°	197.3	1.6
100°-110°	196.3	1.6
110°-120°	182.0	1.5
120°-130°	157.6	1.3
130°-140°	127.5	1.0
140°-150°	95.9	0.8
150°-160°	64.8	0.5
160°-170°	31.7	0.3
170°-180°	8.6	0.1
0°-30°	4617.6	37.0
0°-40°	7149.2	57.3
0°-60°	9903.3	79.4
0°-90°	11410.2	91.5
90°-120°	575.6	4.6
90°-150°	956.6	7.7
90°-180°	1062.0	8.5
0°-180°	12472.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5615	
5°	5614	535
15°	5570	1578
25°	5473	2505
35°	4036	2532
45°	2538	1916
55°	755	838
65°	680	670
75°	505	531
85°	280	252
90°	173	103
95°	182	149
105°	186	196
115°	184	182
125°	176	158
135°	164	128
145°	152	96
155°	141	65
165°	108	32
175°	88	9
180°	85	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5614.9
2.5°	5618.3
5°	5614.1
7.5°	5603.1
10°	5588.7
12.5°	5579.4
15°	5570.0
17.5°	5558.2
20°	5537.8
22.5°	5508.2
25°	5472.7
27.5°	5417.6
30°	5046.7
32.5°	4578.4
35°	4035.5
37.5°	3550.2
40°	3168.2
42.5°	2848.1
45°	2538.1
47.5°	2164.7
50°	1676.0
52.5°	1074.7
55°	755.4
57.5°	740.2
60°	724.9
62.5°	704.7
65°	680.1
67.5°	649.6
70°	608.9
72.5°	558.1
75°	504.8
77.5°	448.0
80°	391.2
82.5°	336.2
85°	280.4
87.5°	225.3
90°	172.8
92.5°	178.7
95°	182.0
97.5°	183.8
100°	184.6
102.5°	185.5
105°	186.3
107.5°	185.5
110°	185.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	184.6
115°	183.8
117.5°	182.0
120°	180.4
122.5°	177.9
125°	176.1
127.5°	172.8
130°	170.2
132.5°	167.7
135°	164.3
137.5°	161.8
140°	158.3
142.5°	155.8
145°	152.4
147.5°	149.1
150°	146.5
152.5°	143.9
155°	140.6
157.5°	135.5
160°	129.6
162.5°	121.1
165°	107.5
167.5°	99.1
170°	94.9
172.5°	91.5
175°	88.1
177.5°	86.4
180°	84.7

(END OF REPORT)