

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: P709450

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709450
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(4000K_L12_277V)
Description: PRENATALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

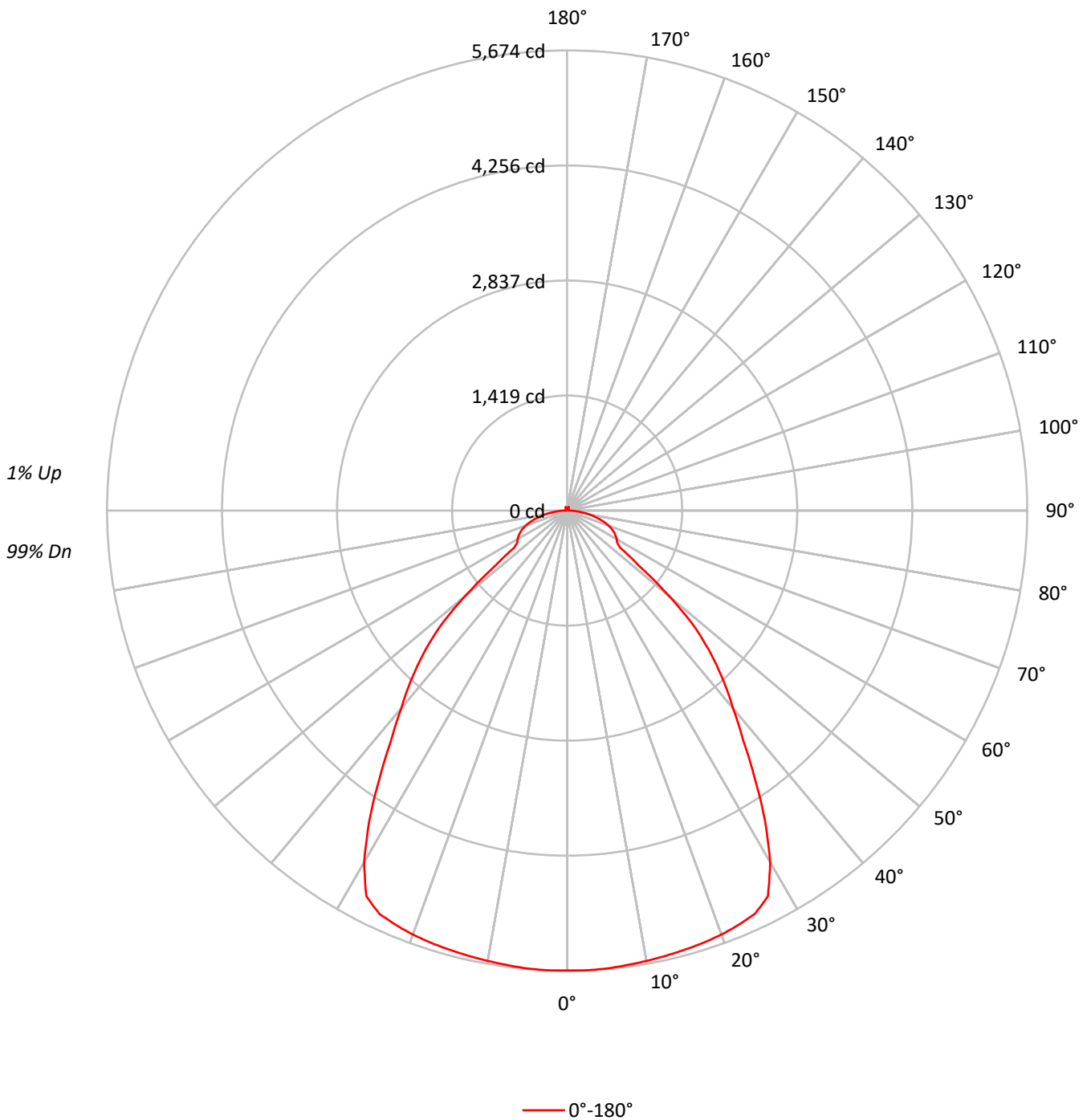
Lumens per Lamp: N/A
Luminaire Lumens: 11275.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 79.6
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°	42384
5°	39166
10°	36484
15°	34359
20°	32615
25°	31046
30°	27596
35°	21845
40°	17049
45°	13466
50°	8855
55°	4315
60°	3909
65°	3646
70°	3221
75°	2593
80°	1841
85°	1015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13466 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.0	4.8
10°-20°	1587.5	14.1
20°-30°	2499.9	22.2
30°-40°	2527.1	22.4
40°-50°	1910.8	16.9
50°-60°	848.2	7.5
60°-70°	628.2	5.6
70°-80°	439.1	3.9
80°-90°	158.5	1.4
90°-100°	17.5	0.2
100°-110°	17.7	0.2
110°-120°	17.1	0.2
120°-130°	17.0	0.2
130°-140°	18.7	0.2
140°-150°	19.6	0.2
150°-160°	19.0	0.2
160°-170°	7.7	0.1
170°-180°	1.5	0.0
0°-30°	4627.4	41.0
0°-40°	7154.4	63.5
0°-60°	9913.5	87.9
0°-90°	11139.3	98.8
90°-120°	52.3	0.5
90°-150°	107.6	1.0
90°-180°	136.0	1.2
0°-180°	11275.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5671	
5°	5668	540
15°	5606	1588
25°	5484	2500
35°	4036	2527
45°	2522	1911
55°	794	848
65°	639	628
75°	418	439
85°	144	146
90°	17	17
95°	16	13
105°	17	18
115°	18	17
125°	18	17
135°	24	19
145°	31	20
155°	42	19
165°	22	8
175°	15	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5671.1
2.5°	5673.7
5°	5667.9
7.5°	5653.6
10°	5637.8
12.5°	5622.7
15°	5606.1
17.5°	5587.7
20°	5562.7
22.5°	5527.7
25°	5484.2
27.5°	5361.5
30°	5006.0
32.5°	4542.9
35°	4036.4
37.5°	3563.2
40°	3183.6
42.5°	2859.0
45°	2521.8
47.5°	2152.1
50°	1650.6
52.5°	1114.1
55°	794.4
57.5°	729.3
60°	705.2
62.5°	675.1
65°	639.2
67.5°	596.7
70°	544.1
72.5°	484.0
75°	418.1
77.5°	349.7
80°	280.4
82.5°	212.0
85°	144.3
87.5°	77.6
90°	16.7
92.5°	15.0
95°	15.9
97.5°	16.7
100°	16.7
102.5°	16.7
105°	16.7
107.5°	16.7
110°	16.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	16.7
115°	17.6
117.5°	17.6
120°	17.6
122.5°	18.4
125°	18.4
127.5°	20.0
130°	20.8
132.5°	22.5
135°	24.2
137.5°	25.9
140°	27.5
142.5°	29.2
145°	30.9
147.5°	33.4
150°	36.7
152.5°	40.1
155°	42.5
157.5°	43.4
160°	40.9
162.5°	35.8
165°	21.7
167.5°	15.9
170°	15.9
172.5°	15.0
175°	15.0
177.5°	15.0
180°	15.0

(END OF REPORT)