

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: P709451

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709451
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_L15_277V)
Description: PRENATALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

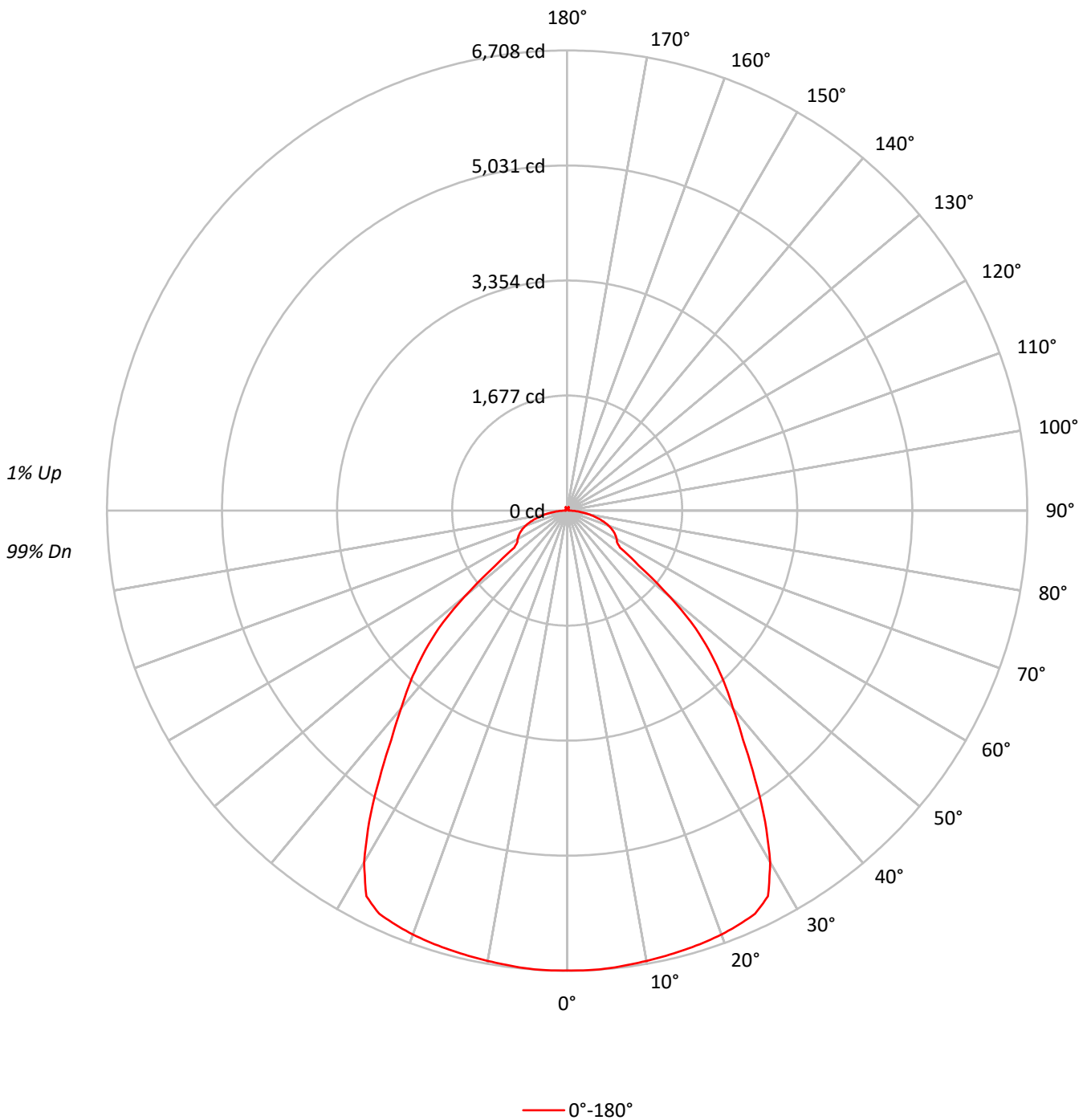
Lumens per Lamp: N/A
Luminaire Lumens: 13330.7 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.4
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°	50113
5°	46307
10°	43136
15°	40624
20°	38562
25°	36707
30°	32629
35°	25829
40°	20157
45°	15921
50°	10470
55°	5102
60°	4622
65°	4311
70°	3809
75°	3066
80°	2177
85°	1200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15921 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.4	4.8
10°-20°	1877.0	14.1
20°-30°	2955.7	22.2
30°-40°	2987.9	22.4
40°-50°	2259.1	16.9
50°-60°	1002.9	7.5
60°-70°	742.8	5.6
70°-80°	519.1	3.9
80°-90°	187.4	1.4
90°-100°	20.7	0.2
100°-110°	20.8	0.2
110°-120°	20.2	0.2
120°-130°	20.1	0.2
130°-140°	22.1	0.2
140°-150°	23.2	0.2
150°-160°	22.5	0.2
160°-170°	9.1	0.1
170°-180°	1.7	0.0
0°-30°	5471.1	41.0
0°-40°	8459.0	63.5
0°-60°	11721.0	87.9
0°-90°	13170.4	98.8
90°-120°	61.7	0.5
90°-150°	127.1	1.0
90°-180°	160.0	1.2
0°-180°	13330.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6705	
5°	6701	638
15°	6628	1877
25°	6484	2956
35°	4772	2988
45°	2982	2259
55°	939	1003
65°	756	743
75°	494	519
85°	171	172
90°	20	20
95°	19	16
105°	20	21
115°	21	20
125°	22	20
135°	29	22
145°	36	23
155°	50	22
165°	26	9
175°	18	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6705.2
2.5°	6708.2
5°	6701.3
7.5°	6684.5
10°	6665.7
12.5°	6648.0
15°	6628.2
17.5°	6606.5
20°	6576.9
22.5°	6535.5
25°	6484.2
27.5°	6339.2
30°	5918.9
32.5°	5371.3
35°	4772.4
37.5°	4213.0
40°	3764.0
42.5°	3380.2
45°	2981.6
47.5°	2544.5
50°	1951.6
52.5°	1317.2
55°	939.3
57.5°	862.3
60°	833.7
62.5°	798.2
65°	755.8
67.5°	705.4
70°	643.3
72.5°	572.3
75°	494.3
77.5°	413.4
80°	331.5
82.5°	250.6
85°	170.7
87.5°	91.8
90°	19.7
92.5°	17.8
95°	18.7
97.5°	19.7
100°	19.7
102.5°	19.7
105°	19.7
107.5°	19.7
110°	19.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	19.7
115°	20.7
117.5°	20.7
120°	20.7
122.5°	21.7
125°	21.7
127.5°	23.7
130°	24.7
132.5°	26.6
135°	28.6
137.5°	30.6
140°	32.6
142.5°	34.5
145°	36.5
147.5°	39.5
150°	43.4
152.5°	47.4
155°	50.3
157.5°	51.3
160°	48.3
162.5°	42.4
165°	25.7
167.5°	18.7
170°	18.7
172.5°	17.8
175°	17.8
177.5°	17.8
180°	17.8

(END OF REPORT)