

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: P735847

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L31_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L31_120V)
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

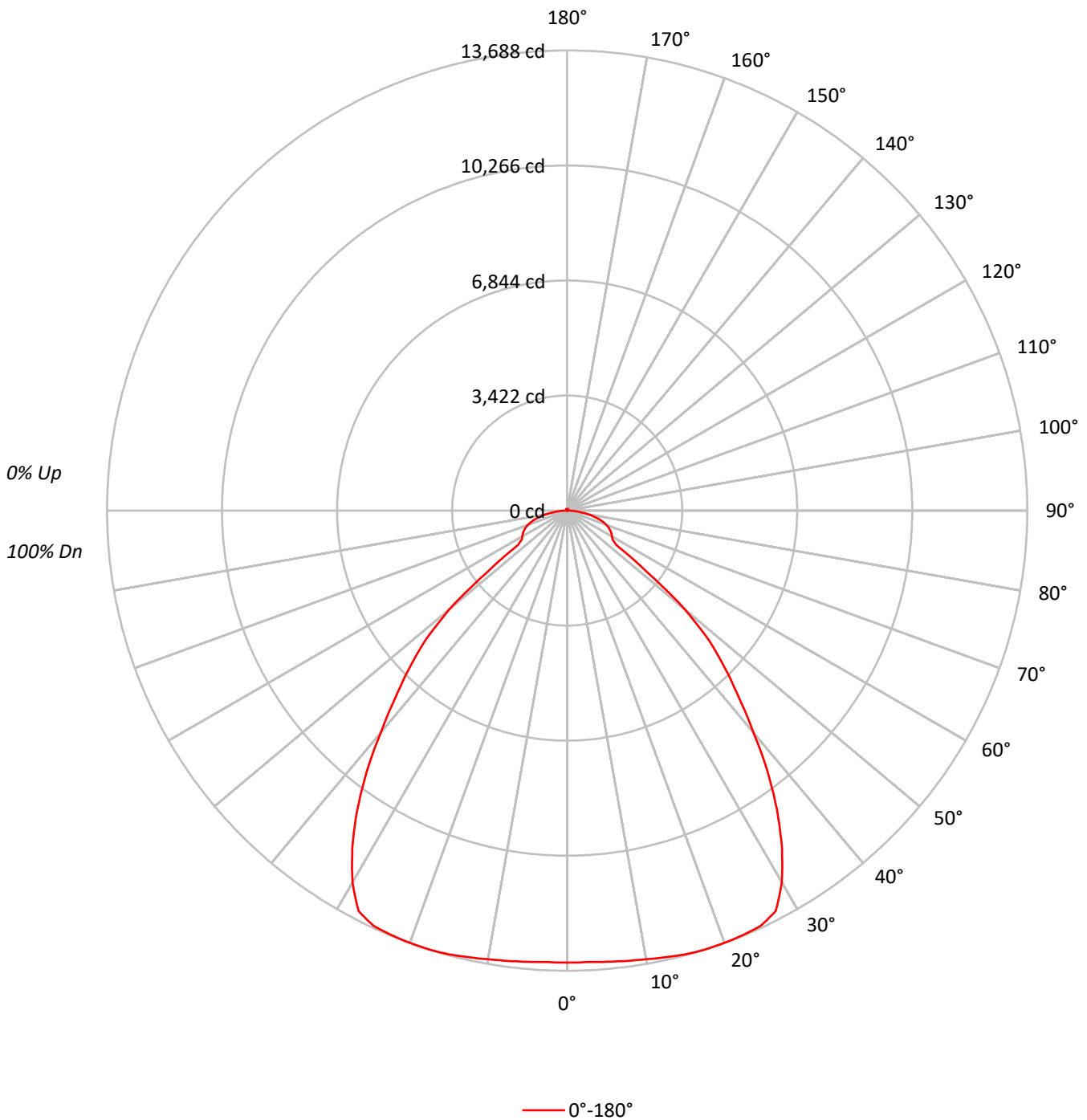
Lumens per Lamp: N/A
Luminaire Lumens: 28198.7 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 193.9
Input Voltage (V): 120
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	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	82	71	64	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	44	39	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°	63145
5°	59466
10°	56841
15°	54981
20°	53317
25°	51850
30°	47830
35°	40447
40°	32037
45°	24875
50°	17376
55°	6939
60°	6173
65°	5923
70°	5446
75°	4537
80°	3163
85°	1562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1288.6	4.6
10°-20°	3869.6	13.7
20°-30°	6234.3	22.1
30°-40°	6747.5	23.9
40°-50°	5101.9	18.1
50°-60°	2089.2	7.4
60°-70°	1398.0	5.0
70°-80°	1012.8	3.6
80°-90°	322.1	1.1
90°-100°	8.9	0.0
100°-110°	11.7	0.0
110°-120°	15.0	0.1
120°-130°	18.1	0.1
130°-140°	23.3	0.1
140°-150°	28.5	0.1
150°-160°	20.9	0.1
160°-170°	6.3	0.0
170°-180°	2.0	0.0
0°-30°	11392.5	40.4
0°-40°	18140.0	64.3
0°-60°	25331.1	89.8
0°-90°	28064.0	99.5
90°-120°	35.5	0.1
90°-150°	105.4	0.4
90°-180°	135.0	0.5
0°-180°	28198.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13446	
5°	13472	###
15°	13661	3870
25°	13629	6234
35°	10891	6747
45°	6653	5102
55°	1787	2089
65°	1420	1398
75°	974	1013
85°	286	304
90°	10	20
95°	8	7
105°	11	12
115°	15	15
125°	20	18
135°	30	23
145°	45	29
155°	46	21
165°	20	6
175°	21	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13446.4
2.5°	13444.4
5°	13471.5
7.5°	13509.7
10°	13551.9
12.5°	13608.2
15°	13661.4
17.5°	13687.5
20°	13683.5
22.5°	13666.4
25°	13629.3
27.5°	13436.4
30°	12774.3
32.5°	11894.3
35°	10890.7
37.5°	9800.8
40°	8630.4
42.5°	7571.6
45°	6653.4
47.5°	5734.2
50°	4578.9
52.5°	2982.6
55°	1787.2
57.5°	1598.3
60°	1541.0
62.5°	1487.8
65°	1420.5
67.5°	1341.1
70°	1242.7
72.5°	1120.1
75°	974.5
77.5°	806.7
80°	631.9
82.5°	458.1
85°	286.3
87.5°	118.5
90°	10.0
92.5°	7.0
95°	8.0
97.5°	8.0
100°	9.0
102.5°	10.0
105°	11.1
107.5°	12.1
110°	13.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	14.1
115°	15.1
117.5°	16.1
120°	17.1
122.5°	18.1
125°	20.1
127.5°	22.1
130°	24.1
132.5°	27.1
135°	30.1
137.5°	33.2
140°	37.2
142.5°	40.2
145°	45.2
147.5°	51.2
150°	56.3
152.5°	52.2
155°	46.2
157.5°	36.2
160°	29.1
162.5°	22.1
165°	20.1
167.5°	20.1
170°	20.1
172.5°	21.1
175°	21.1
177.5°	22.1
180°	23.1

(END OF REPORT)