

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: P735846

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L24_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735846
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: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L24_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

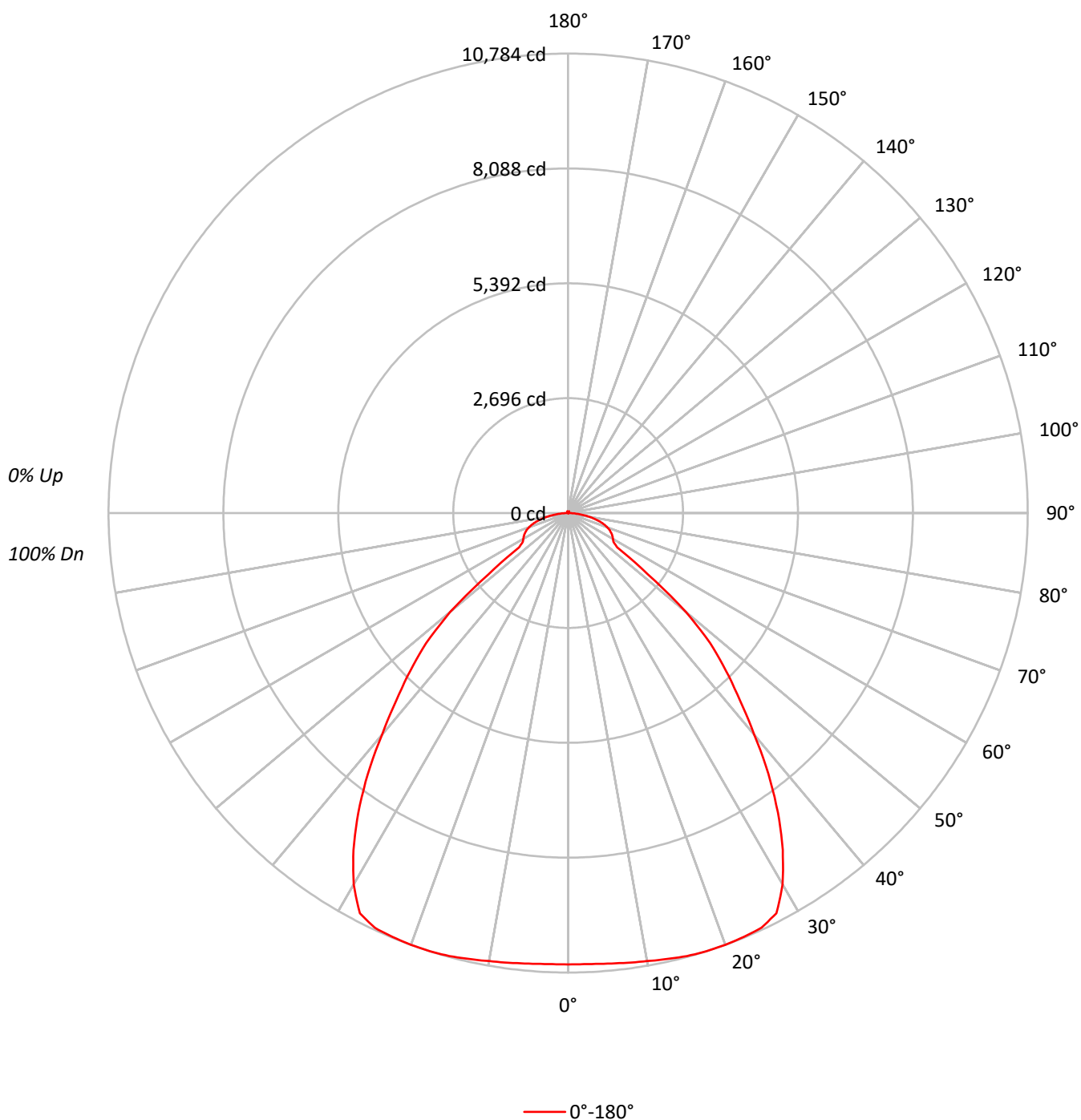
Lumens per Lamp: N/A
Luminaire Lumens: 22217.4 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 142.6
Input Voltage (V): 347
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			
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°	49752
5°	46853
10°	44785
15°	43319
20°	42008
25°	40852
30°	37685
35°	31868
40°	25241
45°	19599
50°	13690
55°	5467
60°	4864
65°	4667
70°	4291
75°	3574
80°	2492
85°	1231

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1015.3	4.6
10°-20°	3048.8	13.7
20°-30°	4912.0	22.1
30°-40°	5316.3	23.9
40°-50°	4019.7	18.1
50°-60°	1646.1	7.4
60°-70°	1101.5	5.0
70°-80°	798.0	3.6
80°-90°	253.8	1.1
90°-100°	7.0	0.0
100°-110°	9.2	0.0
110°-120°	11.8	0.1
120°-130°	14.2	0.1
130°-140°	18.4	0.1
140°-150°	22.5	0.1
150°-160°	16.5	0.1
160°-170°	4.9	0.0
170°-180°	1.6	0.0
0°-30°	8976.0	40.4
0°-40°	14292.3	64.3
0°-60°	19958.1	89.8
0°-90°	22111.4	99.5
90°-120°	28.0	0.1
90°-150°	83.0	0.4
90°-180°	106.0	0.5
0°-180°	22217.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10594	
5°	10614	###
15°	10764	3049
25°	10738	4912
35°	8581	5316
45°	5242	4020
55°	1408	1646
65°	1119	1102
75°	768	798
85°	226	240
90°	8	16
95°	6	5
105°	9	9
115°	12	12
125°	16	14
135°	24	18
145°	36	22
155°	36	16
165°	16	5
175°	17	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10594.3
2.5°	10592.7
5°	10614.1
7.5°	10644.2
10°	10677.4
12.5°	10721.7
15°	10763.7
17.5°	10784.3
20°	10781.1
22.5°	10767.6
25°	10738.3
27.5°	10586.4
30°	10064.8
32.5°	9371.4
35°	8580.7
37.5°	7721.9
40°	6799.8
42.5°	5965.6
45°	5242.1
47.5°	4517.9
50°	3607.7
52.5°	2350.0
55°	1408.1
57.5°	1259.3
60°	1214.2
62.5°	1172.2
65°	1119.2
67.5°	1056.7
70°	979.1
72.5°	882.5
75°	767.8
77.5°	635.6
80°	497.9
82.5°	360.9
85°	225.6
87.5°	93.4
90°	7.9
92.5°	5.5
95°	6.3
97.5°	6.3
100°	7.1
102.5°	7.9
105°	8.7
107.5°	9.5
110°	10.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	11.1
115°	11.9
117.5°	12.7
120°	13.5
122.5°	14.2
125°	15.8
127.5°	17.4
130°	19.0
132.5°	21.4
135°	23.7
137.5°	26.1
140°	29.3
142.5°	31.7
145°	35.6
147.5°	40.4
150°	44.3
152.5°	41.2
155°	36.4
157.5°	28.5
160°	23.0
162.5°	17.4
165°	15.8
167.5°	15.8
170°	15.8
172.5°	16.6
175°	16.6
177.5°	17.4
180°	18.2

(END OF REPORT)