

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: P735801

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L24_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735801
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(4000K_L24_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

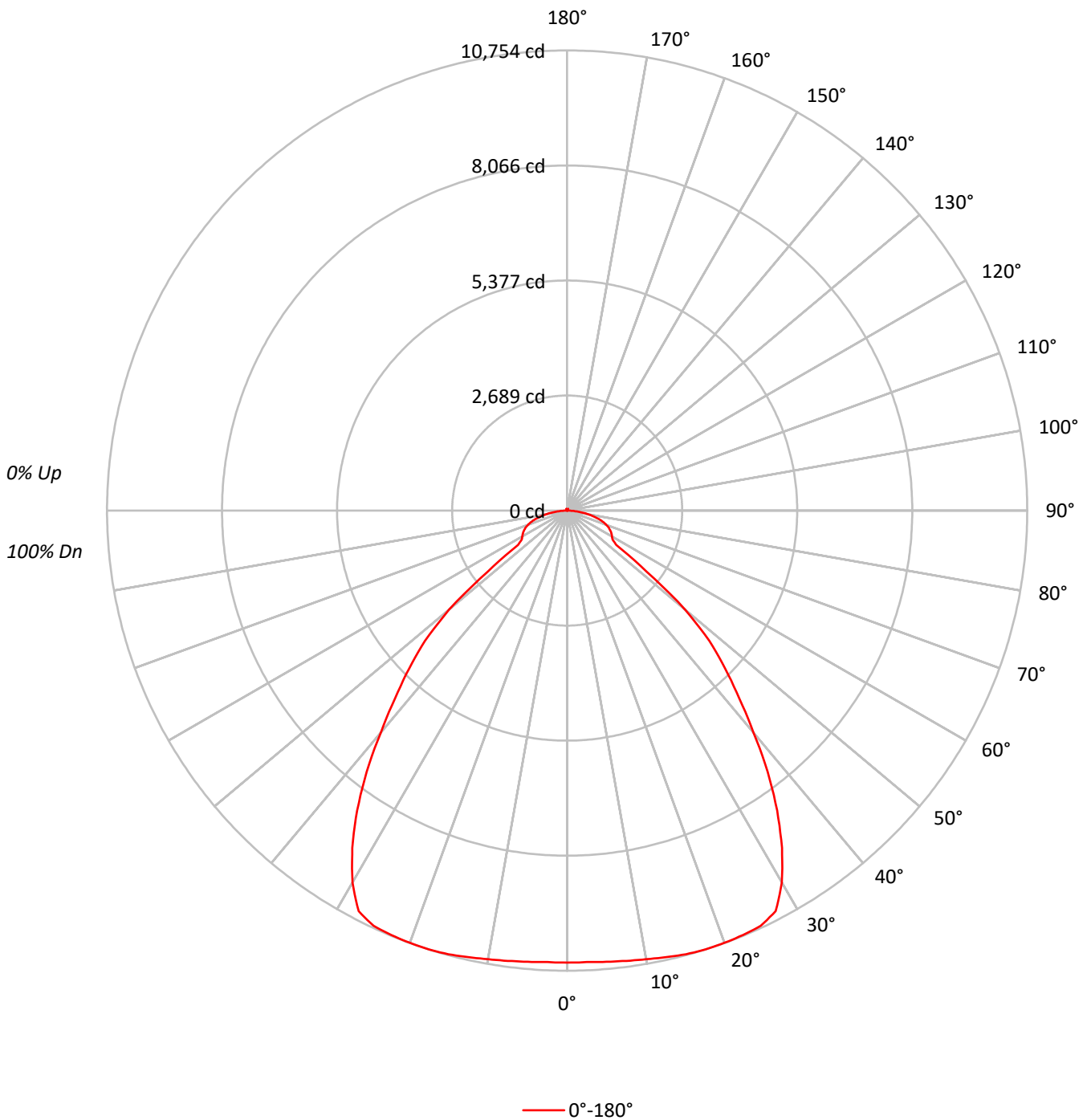
Lumens per Lamp: N/A
Luminaire Lumens: 22154.1 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 143.9
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

TEST NUMBER: P735801

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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	50	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°	49610
5°	46719
10°	44657
15°	43195
20°	41888
25°	40735
30°	37578
35°	31777
40°	25169
45°	19543
50°	13651
55°	5451
60°	4850
65°	4653
70°	4279
75°	3564
80°	2485
85°	1227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19543 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.4	4.6
10°-20°	3040.1	13.7
20°-30°	4898.0	22.1
30°-40°	5301.1	23.9
40°-50°	4008.2	18.1
50°-60°	1641.4	7.4
60°-70°	1098.4	5.0
70°-80°	795.7	3.6
80°-90°	253.0	1.1
90°-100°	7.0	0.0
100°-110°	9.2	0.0
110°-120°	11.7	0.1
120°-130°	14.2	0.1
130°-140°	18.3	0.1
140°-150°	22.4	0.1
150°-160°	16.4	0.1
160°-170°	4.9	0.0
170°-180°	1.6	0.0
0°-30°	8950.4	40.4
0°-40°	14251.6	64.3
0°-60°	19901.2	89.8
0°-90°	22048.3	99.5
90°-120°	27.9	0.1
90°-150°	82.8	0.4
90°-180°	106.0	0.5
0°-180°	22154.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10564	
5°	10584	###
15°	10733	3040
25°	10708	4898
35°	8556	5301
45°	5227	4008
55°	1404	1641
65°	1116	1098
75°	766	796
85°	225	239
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°	10564.1
2.5°	10562.5
5°	10583.8
7.5°	10613.8
10°	10647.0
12.5°	10691.2
15°	10733.0
17.5°	10753.5
20°	10750.4
22.5°	10736.9
25°	10707.7
27.5°	10556.2
30°	10036.1
32.5°	9344.7
35°	8556.2
37.5°	7699.9
40°	6780.4
42.5°	5948.6
45°	5227.2
47.5°	4505.0
50°	3597.4
52.5°	2343.3
55°	1404.1
57.5°	1255.7
60°	1210.7
62.5°	1168.9
65°	1116.0
67.5°	1053.6
70°	976.3
72.5°	880.0
75°	765.6
77.5°	633.8
80°	496.4
82.5°	359.9
85°	224.9
87.5°	93.1
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

TEST NUMBER: P735801

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L24_347V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	11.0
115°	11.8
117.5°	12.6
120°	13.4
122.5°	14.2
125°	15.8
127.5°	17.4
130°	18.9
132.5°	21.3
135°	23.7
137.5°	26.0
140°	29.2
142.5°	31.6
145°	35.5
147.5°	40.3
150°	44.2
152.5°	41.0
155°	36.3
157.5°	28.4
160°	22.9
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)