

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: P735845

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L24_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735845
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_L24_277V)
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

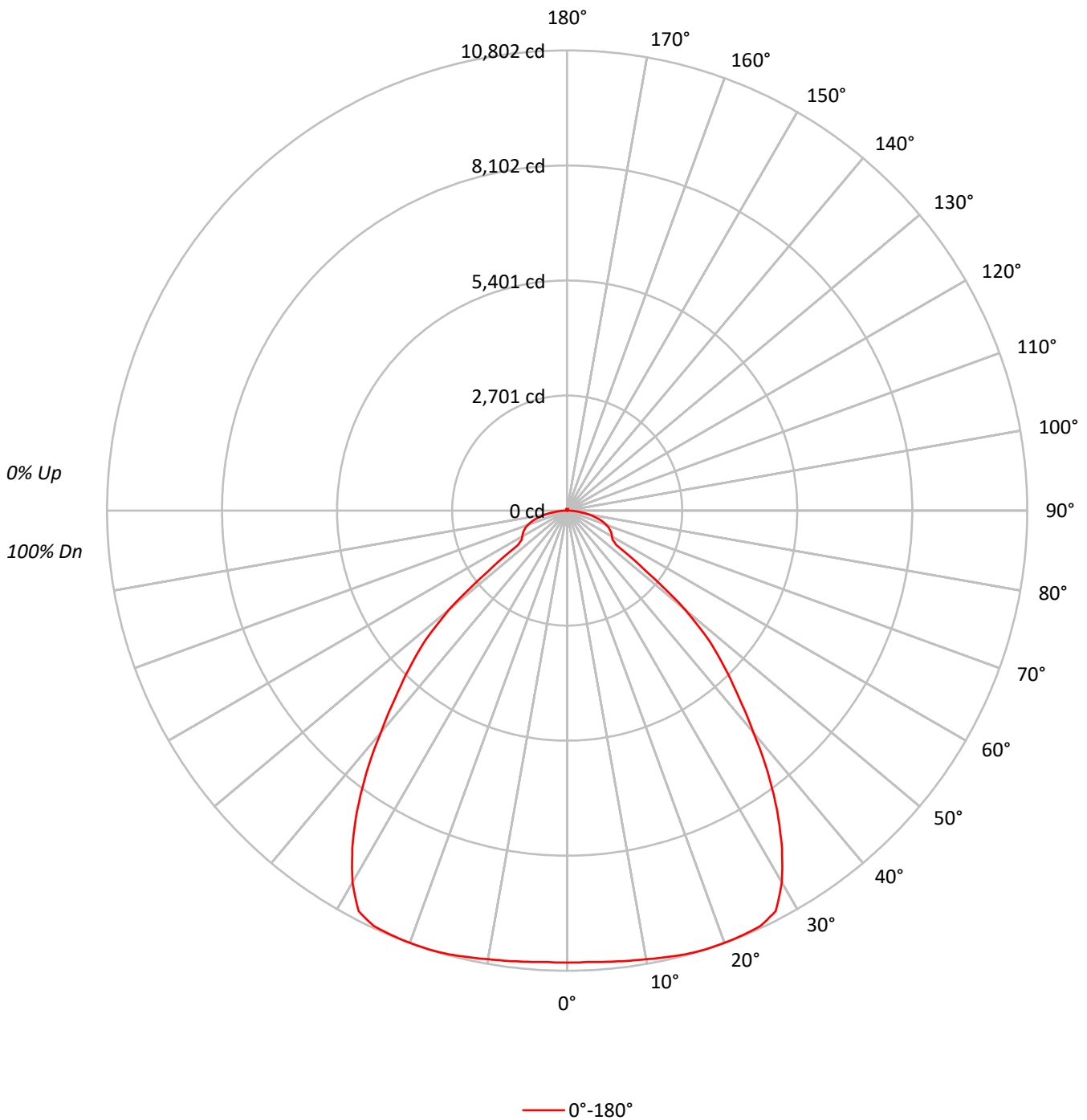
Lumens per Lamp: N/A
Luminaire Lumens: 22253.2 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 142.5
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	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°	49832
5°	46928
10°	44857
15°	43388
20°	42076
25°	40918
30°	37746
35°	31919
40°	25282
45°	19630
50°	13712
55°	5476
60°	4871
65°	4674
70°	4298
75°	3580
80°	2496
85°	1233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.9	4.6
10°-20°	3053.7	13.7
20°-30°	4919.9	22.1
30°-40°	5324.9	23.9
40°-50°	4026.2	18.1
50°-60°	1648.8	7.4
60°-70°	1103.3	5.0
70°-80°	799.3	3.6
80°-90°	254.1	1.1
90°-100°	7.0	0.0
100°-110°	9.2	0.0
110°-120°	11.8	0.1
120°-130°	14.3	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°	8990.5	40.4
0°-40°	14315.4	64.3
0°-60°	19990.3	89.8
0°-90°	22147.0	99.5
90°-120°	28.0	0.1
90°-150°	83.2	0.4
90°-180°	106.0	0.5
0°-180°	22253.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10611	
5°	10631	###
15°	10781	3054
25°	10756	4920
35°	8594	5325
45°	5251	4026
55°	1410	1649
65°	1121	1103
75°	769	799
85°	226	240
90°	8	16
95°	6	5
105°	9	9
115°	12	12
125°	16	14
135°	24	18
145°	36	23
155°	36	17
165°	16	5
175°	17	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10611.4
2.5°	10609.8
5°	10631.2
7.5°	10661.3
10°	10694.6
12.5°	10739.0
15°	10781.0
17.5°	10801.6
20°	10798.5
22.5°	10785.0
25°	10755.7
27.5°	10603.5
30°	10081.0
32.5°	9386.5
35°	8594.5
37.5°	7734.4
40°	6810.8
42.5°	5975.2
45°	5250.6
47.5°	4525.2
50°	3613.5
52.5°	2353.8
55°	1410.4
57.5°	1261.3
60°	1216.1
62.5°	1174.1
65°	1121.0
67.5°	1058.4
70°	980.7
72.5°	884.0
75°	769.0
77.5°	636.6
80°	498.7
82.5°	361.5
85°	225.9
87.5°	93.5
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°	14.3
125°	15.9
127.5°	17.4
130°	19.0
132.5°	21.4
135°	23.8
137.5°	26.2
140°	29.3
142.5°	31.7
145°	35.7
147.5°	40.4
150°	44.4
152.5°	41.2
155°	36.5
157.5°	28.5
160°	23.0
162.5°	17.4
165°	15.9
167.5°	15.9
170°	15.9
172.5°	16.6
175°	16.6
177.5°	17.4
180°	18.2

(END OF REPORT)