

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: P735827

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

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-TRWH(5000K_L24_277V)
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 1 - 24,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

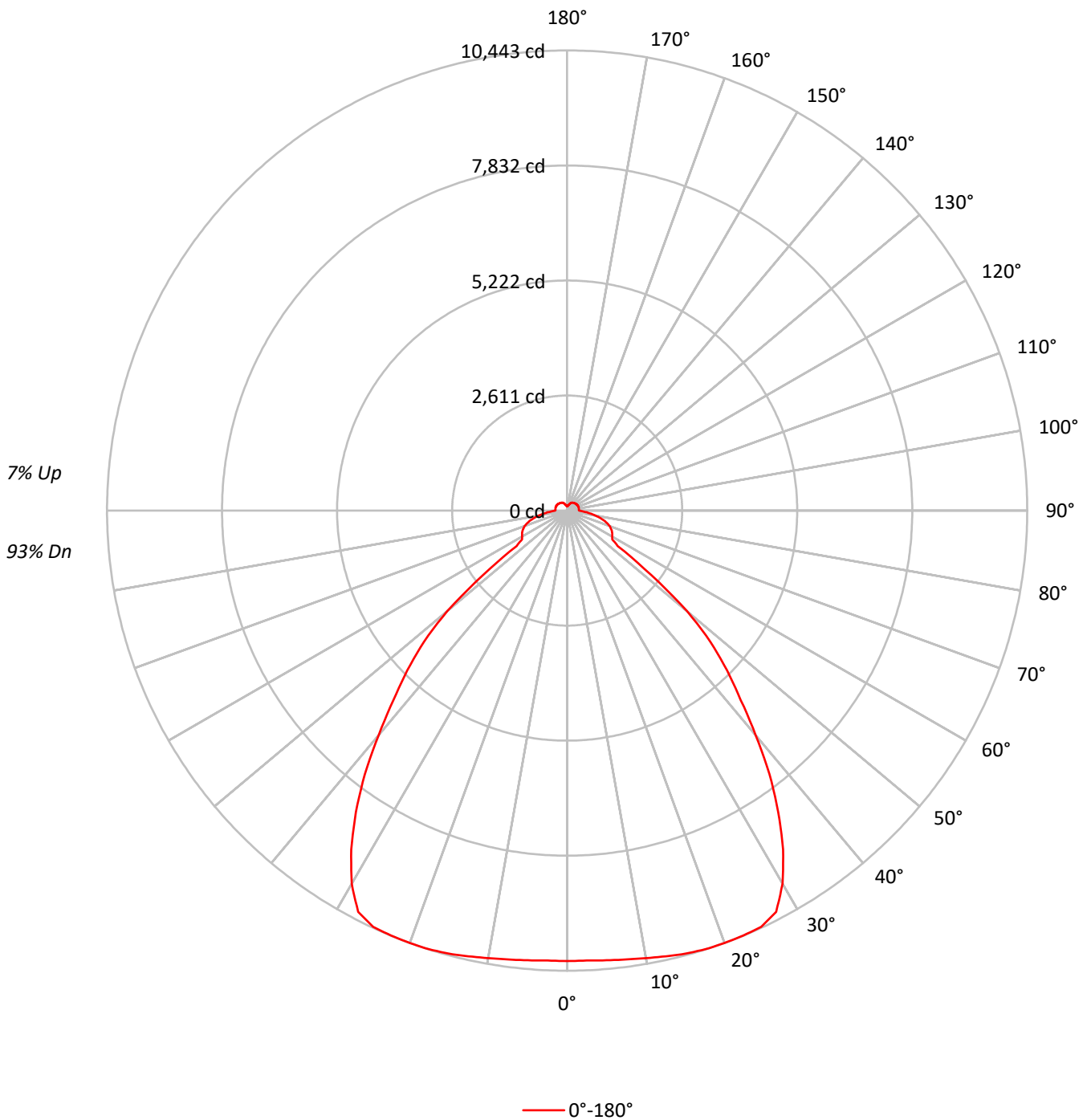
Lumens per Lamp: N/A
Luminaire Lumens: 23460.0 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81
2	101	94	88	83	98	91	86	81	87	82	79	83	79	76	79	76	73	71
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63
4	86	76	69	63	84	74	67	62	71	65	60	68	63	59	65	61	58	55
5	80	69	61	56	78	68	60	55	65	59	54	62	57	53	60	55	52	50
6	75	63	55	50	73	62	54	49	60	53	48	57	52	47	55	50	46	44
7	70	58	50	45	68	57	49	44	55	48	43	53	47	43	51	46	42	40
8	65	53	46	40	64	52	45	40	51	44	39	49	43	39	47	42	38	36
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	33
10	58	46	38	34	56	45	38	33	43	37	33	42	37	33	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48008
5°	45220
10°	43251
15°	41892
20°	40692
25°	39642
30°	36606
35°	31033
40°	24708
45°	19177
50°	13469
55°	5439
60°	4735
65°	4678
70°	4492
75°	4019
80°	3258
85°	2379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.0	4.2
10°-20°	2948.9	12.6
20°-30°	4764.5	20.3
30°-40°	5181.3	22.1
40°-50°	3933.1	16.8
50°-60°	1633.7	7.0
60°-70°	1105.7	4.7
70°-80°	901.6	3.8
80°-90°	483.3	2.1
90°-100°	292.2	1.2
100°-110°	286.8	1.2
110°-120°	264.8	1.1
120°-130°	228.1	1.0
130°-140°	183.8	0.8
140°-150°	137.4	0.6
150°-160°	86.1	0.4
160°-170°	38.5	0.2
170°-180°	10.3	0.0
0°-30°	8693.4	37.1
0°-40°	13874.7	59.1
0°-60°	19441.5	82.9
0°-90°	21932.1	93.5
90°-120°	843.8	3.6
90°-150°	1393.1	5.9
90°-180°	1528.0	6.5
0°-180°	23460.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10223	
5°	10244	980
15°	10409	2949
25°	10420	4764
35°	8356	5181
45°	5129	3933
55°	1401	1634
65°	1122	1106
75°	863	902
85°	436	401
90°	270	156
95°	267	219
105°	272	287
115°	267	265
125°	254	228
135°	237	184
145°	218	137
155°	186	86
165°	132	38
175°	105	10
180°	101	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	10222.9
2.5°	10221.3
5°	10244.3
7.5°	10274.4
10°	10311.7
12.5°	10360.1
15°	10409.2
17.5°	10437.0
20°	10443.3
22.5°	10437.8
25°	10420.3
27.5°	10268.1
30°	9776.6
32.5°	9121.7
35°	8355.9
37.5°	7541.7
40°	6656.2
42.5°	5834.1
45°	5129.3
47.5°	4411.8
50°	3549.3
52.5°	2396.6
55°	1400.8
57.5°	1212.2
60°	1182.0
62.5°	1155.1
65°	1121.8
67.5°	1079.0
70°	1025.1
72.5°	952.9
75°	863.3
77.5°	760.3
80°	650.9
82.5°	543.1
85°	436.0
87.5°	334.6
90°	269.5
92.5°	264.8
95°	267.2
97.5°	269.5
100°	270.3
102.5°	271.1
105°	271.9
107.5°	271.1
110°	270.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	268.8
115°	267.2
117.5°	264.8
120°	261.6
122.5°	258.4
125°	254.5
127.5°	249.7
130°	245.8
132.5°	241.8
135°	237.0
137.5°	232.3
140°	228.3
142.5°	223.6
145°	218.0
147.5°	213.3
150°	208.5
152.5°	198.2
155°	185.5
157.5°	171.2
160°	157.8
162.5°	144.3
165°	132.4
167.5°	122.1
170°	111.8
172.5°	109.4
175°	105.4
177.5°	102.3
180°	100.7

(END OF REPORT)