

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: P735782

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(4000K_L24_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735782
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: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-TRWH(4000K_L24_277V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 1 - 24,000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

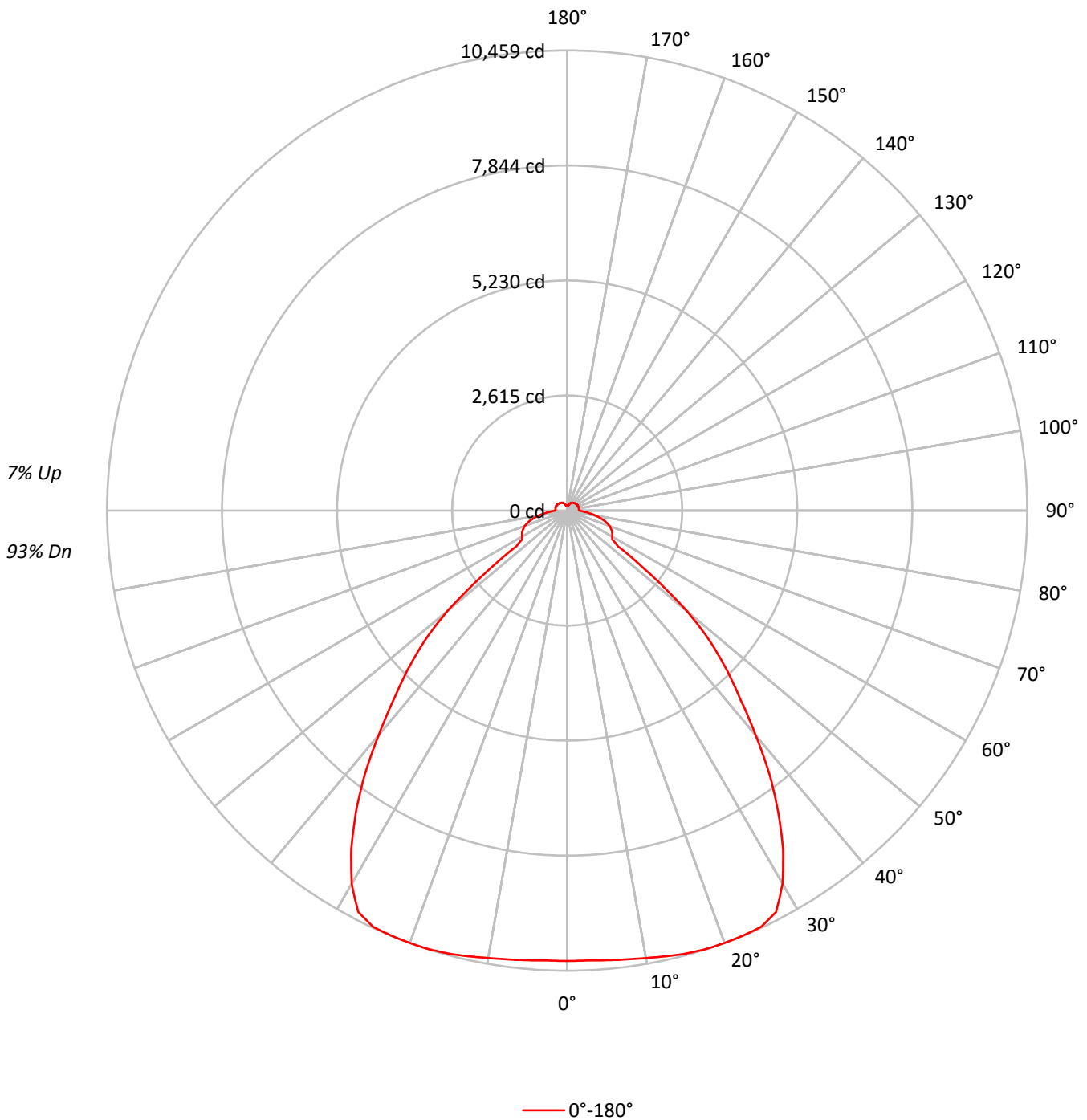
Lumens per Lamp: N/A
Luminaire Lumens: 23495.9 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 144.3
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°	48081
5°	45290
10°	43317
15°	41956
20°	40754
25°	39703
30°	36662
35°	31081
40°	24746
45°	19206
50°	13489
55°	5447
60°	4742
65°	4685
70°	4499
75°	4026
80°	3263
85°	2383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19206 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.5	4.2
10°-20°	2953.4	12.6
20°-30°	4771.8	20.3
30°-40°	5189.2	22.1
40°-50°	3939.1	16.8
50°-60°	1636.2	7.0
60°-70°	1107.3	4.7
70°-80°	903.0	3.8
80°-90°	484.1	2.1
90°-100°	292.7	1.2
100°-110°	287.3	1.2
110°-120°	265.2	1.1
120°-130°	228.4	1.0
130°-140°	184.0	0.8
140°-150°	137.6	0.6
150°-160°	86.2	0.4
160°-170°	38.5	0.2
170°-180°	10.3	0.0
0°-30°	8706.7	37.1
0°-40°	13896.0	59.1
0°-60°	19471.2	82.9
0°-90°	21965.6	93.5
90°-120°	845.2	3.6
90°-150°	1395.2	5.9
90°-180°	1530.0	6.5
0°-180°	23495.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10238	
5°	10260	982
15°	10425	2953
25°	10436	4772
35°	8369	5189
45°	5137	3939
55°	1403	1636
65°	1124	1107
75°	865	903
85°	437	401
90°	270	156
95°	268	219
105°	272	287
115°	268	265
125°	255	228
135°	237	184
145°	218	138
155°	186	86
165°	133	39
175°	106	10
180°	101	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	10238.5
2.5°	10237.0
5°	10260.0
7.5°	10290.2
10°	10327.5
12.5°	10375.9
15°	10425.1
17.5°	10452.9
20°	10459.3
22.5°	10453.7
25°	10436.3
27.5°	10283.8
30°	9791.5
32.5°	9135.7
35°	8368.7
37.5°	7553.3
40°	6666.4
42.5°	5843.0
45°	5137.1
47.5°	4418.6
50°	3554.7
52.5°	2400.2
55°	1403.0
57.5°	1214.0
60°	1183.8
62.5°	1156.8
65°	1123.5
67.5°	1080.6
70°	1026.6
72.5°	954.4
75°	864.7
77.5°	761.4
80°	651.9
82.5°	543.9
85°	436.7
87.5°	335.1
90°	270.0
92.5°	265.2
95°	267.6
97.5°	270.0
100°	270.8
102.5°	271.5
105°	272.3
107.5°	271.5
110°	270.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	269.2
115°	267.6
117.5°	265.2
120°	262.0
122.5°	258.8
125°	254.9
127.5°	250.1
130°	246.1
132.5°	242.2
135°	237.4
137.5°	232.6
140°	228.7
142.5°	223.9
145°	218.3
147.5°	213.6
150°	208.8
152.5°	198.5
155°	185.8
157.5°	171.5
160°	158.0
162.5°	144.5
165°	132.6
167.5°	122.3
170°	112.0
172.5°	109.6
175°	105.6
177.5°	102.4
180°	100.8

(END OF REPORT)