

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: P735774

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

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L24_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

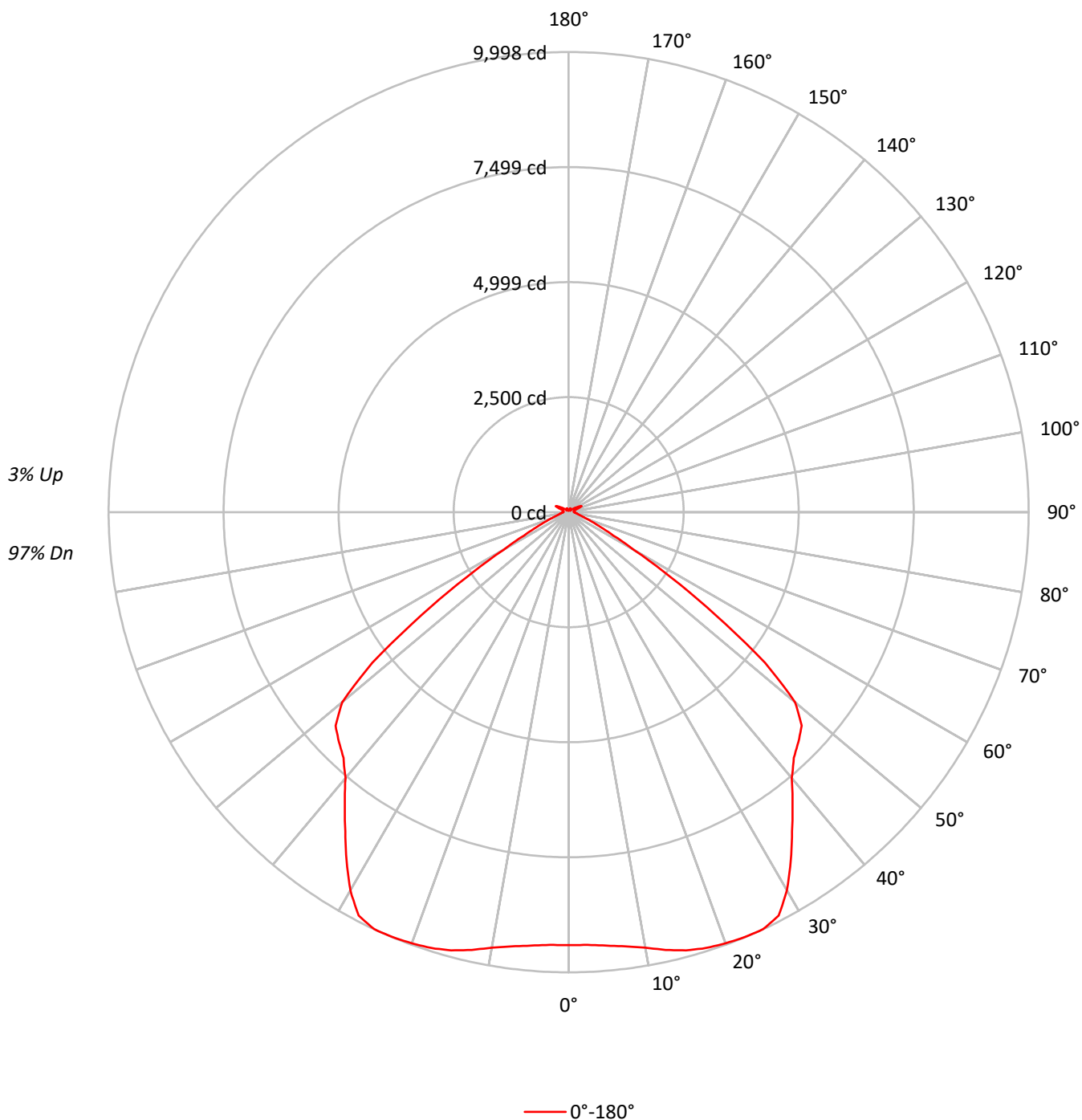
Lumens per Lamp: N/A
Luminaire Lumens: 24668.1 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

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

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	97		
1	110	106	103	100	107	104	101	98	99	97	94	95	93	91	91	89	88	88	86		
2	102	95	90	85	99	93	88	84	89	85	81	86	82	79	82	79	77	77	75		
3	94	85	78	73	92	84	77	72	80	75	70	77	73	69	74	71	67	67	65		
4	87	77	69	63	85	75	68	63	72	66	61	70	65	60	67	63	59	59	57		
5	81	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52	52	50		
6	75	63	55	49	73	62	54	48	59	53	48	58	52	47	56	51	47	47	45		
7	69	57	49	43	68	56	48	43	54	48	43	53	47	42	51	46	42	42	40		
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	37	37	36		
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	43	38	34	34	32		
10	57	44	37	32	55	44	36	32	42	36	31	41	35	31	40	35	31	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44169
5°	41723
10°	40290
15°	39669
20°	38840
25°	38036
30°	35530
35°	31431
40°	28011
45°	26391
50°	24382
55°	15135
60°	6607
65°	3202
70°	1823
75°	1187
80°	932
85°	805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26391 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.0	3.7
10°-20°	2791.4	11.3
20°-30°	4577.5	18.6
30°-40°	5308.9	21.5
40°-50°	5441.0	22.1
50°-60°	3534.1	14.3
60°-70°	849.7	3.4
70°-80°	287.1	1.2
80°-90°	162.8	0.7
90°-100°	121.1	0.5
100°-110°	139.0	0.6
110°-120°	256.6	1.0
120°-130°	139.3	0.6
130°-140°	47.4	0.2
140°-150°	43.2	0.2
150°-160°	41.3	0.2
160°-170°	17.1	0.1
170°-180°	3.5	0.0
0°-30°	8276.0	33.5
0°-40°	13584.9	55.1
0°-60°	22560.0	91.5
0°-90°	23859.6	96.7
90°-120°	516.7	2.1
90°-150°	746.6	3.0
90°-180°	809.0	3.3
0°-180°	24668.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9406	
5°	9452	907
15°	9857	2791
25°	9998	4578
35°	8463	5309
45°	7059	5441
55°	3898	3534
65°	768	850
75°	255	287
85°	148	129
90°	116	65
95°	108	90
105°	123	139
115°	309	257
125°	152	139
135°	54	47
145°	70	43
155°	92	41
165°	58	17
175°	35	3
180°	35	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9405.5
2.5°	9409.4
5°	9452.0
7.5°	9514.4
10°	9605.9
12.5°	9740.9
15°	9856.9
17.5°	9929.5
20°	9968.2
22.5°	9991.1
25°	9998.2
27.5°	9883.8
30°	9489.1
32.5°	8983.2
35°	8463.1
37.5°	7992.7
40°	7546.0
42.5°	7241.4
45°	7059.0
47.5°	6869.6
50°	6425.3
52.5°	5377.9
55°	3898.1
57.5°	2636.9
60°	1649.5
62.5°	1094.7
65°	767.9
67.5°	558.8
70°	415.9
72.5°	318.1
75°	254.9
77.5°	214.7
80°	186.3
82.5°	164.2
85°	147.6
87.5°	134.2
90°	116.0
92.5°	110.5
95°	108.1
97.5°	109.7
100°	115.2
102.5°	119.2
105°	123.1
107.5°	138.9
110°	175.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	242.3
115°	309.4
117.5°	284.9
120°	222.6
122.5°	184.7
125°	152.3
127.5°	121.5
130°	92.3
132.5°	69.5
135°	54.5
137.5°	48.1
140°	48.9
142.5°	56.8
145°	69.5
147.5°	82.1
150°	91.6
152.5°	93.9
155°	91.6
157.5°	85.2
160°	77.3
162.5°	67.9
165°	58.4
167.5°	48.9
170°	40.3
172.5°	36.3
175°	34.7
177.5°	34.7
180°	34.7

(END OF REPORT)