

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: P735780

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L36_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735780
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_L36_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

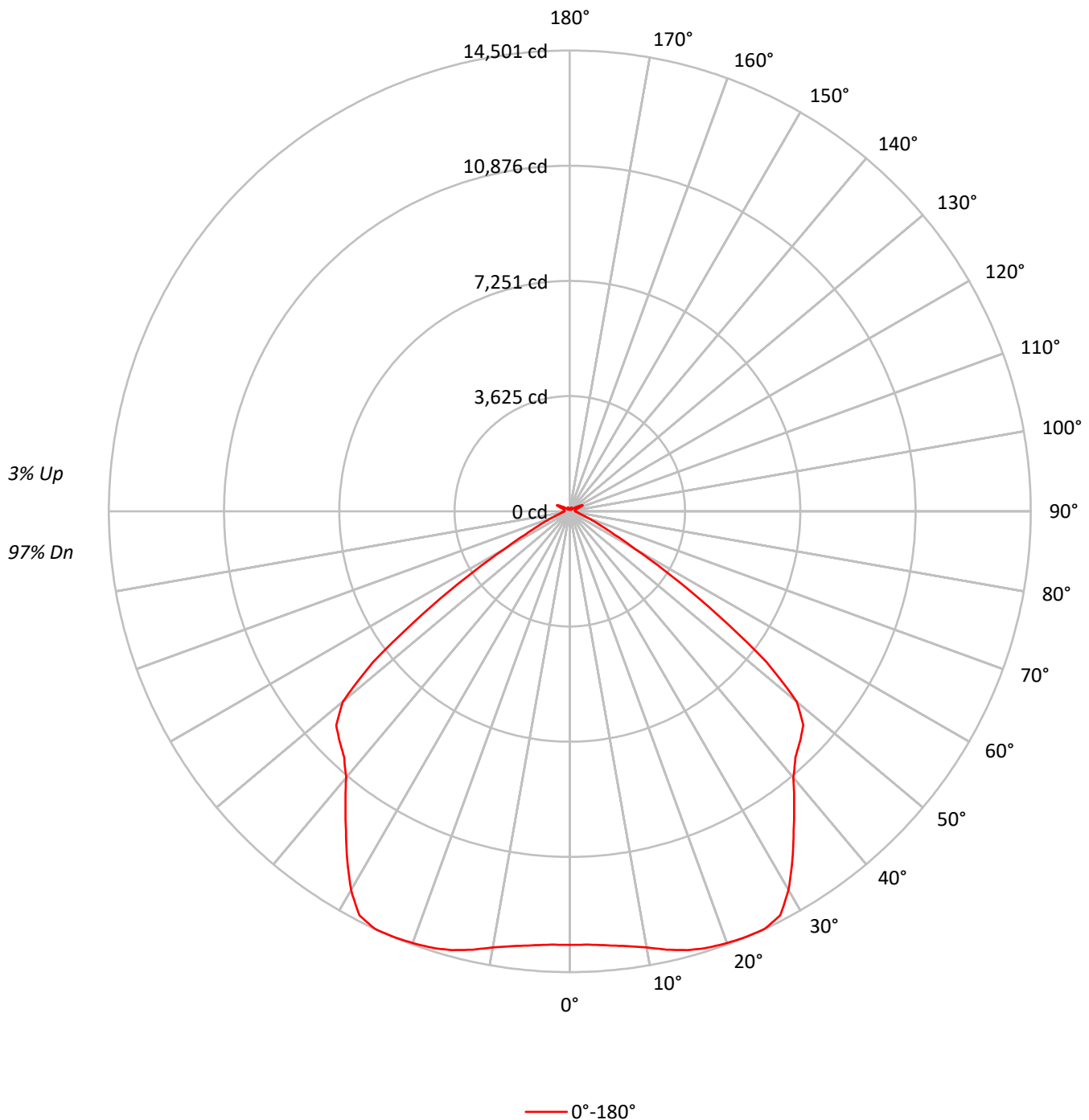
Lumens per Lamp: N/A
Luminaire Lumens: 35778.7 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 230.4
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				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97		
1	110	106	103	100	107	104	101	98	99	97	94	95	93	91	91	89	88	86		
2	102	95	90	85	99	93	88	84	89	85	81	86	82	79	82	79	77	75		
3	94	85	78	73	92	84	77	72	80	75	70	77	73	69	74	71	67	65		
4	87	77	69	63	85	75	68	63	72	66	61	70	65	60	67	63	59	57		
5	81	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52	50		
6	75	63	55	49	73	62	54	48	59	53	48	58	52	47	56	51	47	45		
7	69	57	49	43	68	56	48	43	54	48	43	53	47	42	51	46	42	40		
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	43	38	34	32		
10	57	44	37	32	55	44	36	32	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64062
5°	60515
10°	58438
15°	57537
20°	56334
25°	55168
30°	51533
35°	45588
40°	40628
45°	38278
50°	35364
55°	21951
60°	9584
65°	4644
70°	2644
75°	1721
80°	1352
85°	1168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 38278 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1315.6	3.7
10°-20°	4048.7	11.3
20°-30°	6639.3	18.6
30°-40°	7700.0	21.5
40°-50°	7891.7	22.1
50°-60°	5125.9	14.3
60°-70°	1232.4	3.4
70°-80°	416.4	1.2
80°-90°	236.1	0.7
90°-100°	175.6	0.5
100°-110°	201.7	0.6
110°-120°	372.1	1.0
120°-130°	202.0	0.6
130°-140°	68.8	0.2
140°-150°	62.7	0.2
150°-160°	59.9	0.2
160°-170°	24.8	0.1
170°-180°	5.1	0.0
0°-30°	12003.5	33.5
0°-40°	19703.5	55.1
0°-60°	32721.1	91.5
0°-90°	34606.0	96.7
90°-120°	749.4	2.1
90°-150°	1082.9	3.0
90°-180°	1173.0	3.3
0°-180°	35778.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13642	
5°	13709	###
15°	14296	4049
25°	14501	6639
35°	12275	7700
45°	10238	7892
55°	5654	5126
65°	1114	1232
75°	370	416
85°	214	186
90°	168	95
95°	157	131
105°	179	202
115°	449	372
125°	221	202
135°	79	69
145°	101	63
155°	133	60
165°	85	25
175°	50	5
180°	50	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13641.7
2.5°	13647.5
5°	13709.3
7.5°	13799.7
10°	13932.5
12.5°	14128.2
15°	14296.5
17.5°	14401.8
20°	14457.9
22.5°	14491.1
25°	14501.4
27.5°	14335.4
30°	13763.1
32.5°	13029.3
35°	12274.9
37.5°	11592.7
40°	10944.7
42.5°	10502.9
45°	10238.5
47.5°	9963.7
50°	9319.2
52.5°	7800.2
55°	5653.8
57.5°	3824.5
60°	2392.5
62.5°	1587.7
65°	1113.8
67.5°	810.5
70°	603.3
72.5°	461.3
75°	369.7
77.5°	311.4
80°	270.2
82.5°	238.1
85°	214.1
87.5°	194.6
90°	168.3
92.5°	160.3
95°	156.8
97.5°	159.1
100°	167.1
102.5°	172.9
105°	178.6
107.5°	201.5
110°	254.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	351.4
115°	448.7
117.5°	413.2
120°	322.8
122.5°	267.9
125°	220.9
127.5°	176.3
130°	133.9
132.5°	100.7
135°	79.0
137.5°	69.8
140°	71.0
142.5°	82.4
145°	100.7
147.5°	119.1
150°	132.8
152.5°	136.2
155°	132.8
157.5°	123.6
160°	112.2
162.5°	98.4
165°	84.7
167.5°	71.0
170°	58.4
172.5°	52.7
175°	50.4
177.5°	50.4
180°	50.4

(END OF REPORT)