

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: P735777

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L31_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735777
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_L31_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL 2 - 31,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

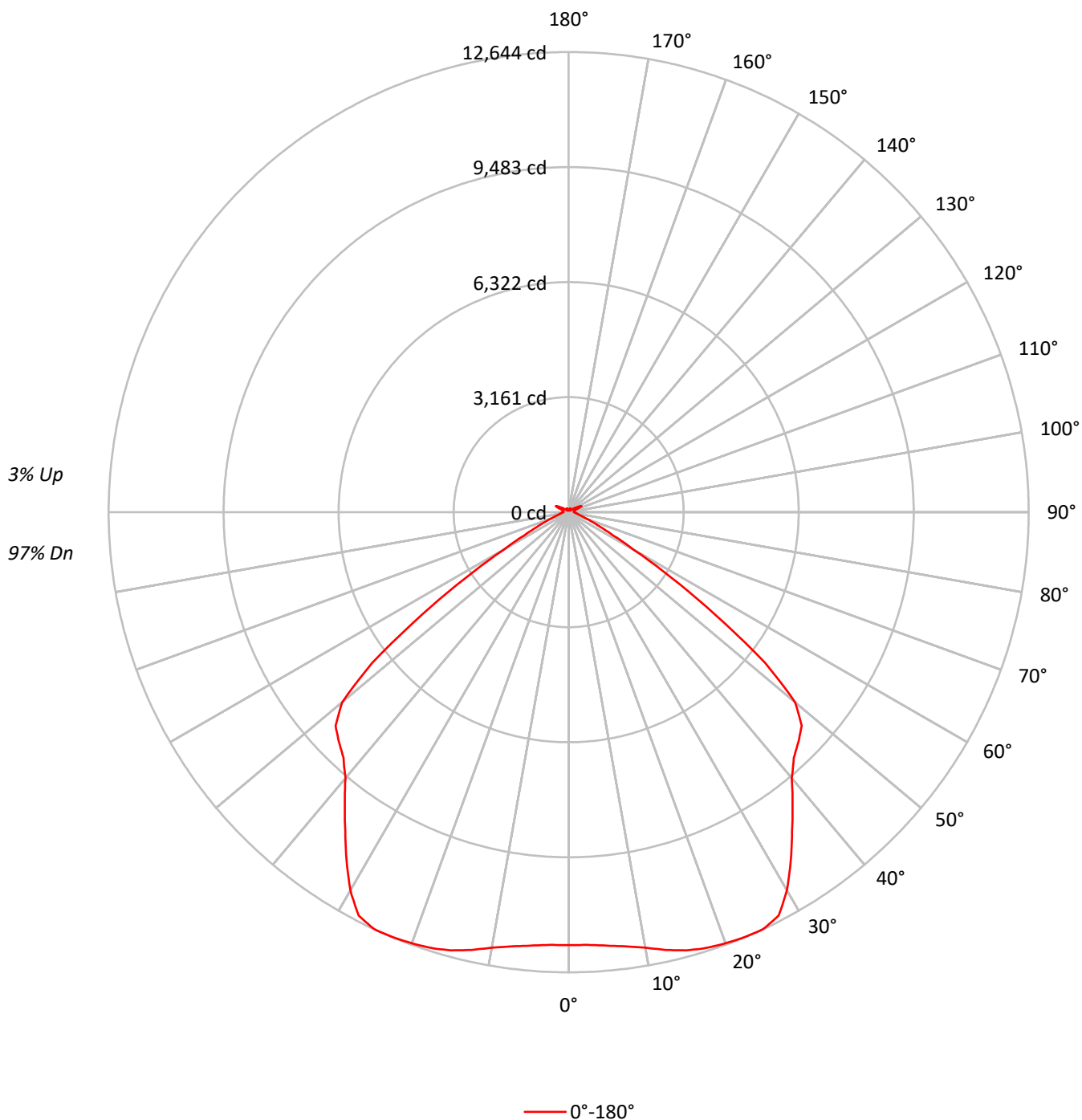
Lumens per Lamp: N/A
Luminaire Lumens: 31196.8 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 187.1
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	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97
1	110	106	103	100	107	104	101	98	99	97	94	95	93	91	91	89	88	88	88	86
2	102	95	90	85	99	93	88	84	89	85	81	86	82	79	82	79	77	77	77	75
3	94	85	78	73	92	84	77	72	80	75	70	77	73	69	74	71	67	67	67	65
4	87	77	69	63	85	75	68	63	72	66	61	70	65	60	67	63	59	59	59	57
5	81	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52	52	52	50
6	75	63	55	49	73	62	54	48	59	53	48	58	52	47	56	51	47	47	47	45
7	69	57	49	43	68	56	48	43	54	48	43	53	47	42	51	46	42	42	42	40
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	37	37	37	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	43	38	34	34	34	32
10	57	44	37	32	55	44	36	32	42	36	31	41	35	31	40	35	31	31	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55858
5°	52765
10°	50954
15°	50169
20°	49120
25°	48103
30°	44933
35°	39750
40°	35425
45°	33376
50°	30835
55°	19140
60°	8356
65°	4050
70°	2305
75°	1501
80°	1179
85°	1019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1147.1	3.7
10°-20°	3530.2	11.3
20°-30°	5789.0	18.6
30°-40°	6714.0	21.5
40°-50°	6881.0	22.1
50°-60°	4469.5	14.3
60°-70°	1074.6	3.4
70°-80°	363.1	1.2
80°-90°	205.9	0.7
90°-100°	153.1	0.5
100°-110°	175.8	0.6
110°-120°	324.5	1.0
120°-130°	176.1	0.6
130°-140°	60.0	0.2
140°-150°	54.6	0.2
150°-160°	52.2	0.2
160°-170°	21.7	0.1
170°-180°	4.4	0.0
0°-30°	10466.3	33.5
0°-40°	17180.3	55.1
0°-60°	28530.8	91.5
0°-90°	30174.4	96.7
90°-120°	653.4	2.1
90°-150°	944.2	3.0
90°-180°	1022.0	3.3
0°-180°	31196.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11895	
5°	11954	###
15°	12466	3530
25°	12644	5789
35°	10703	6714
45°	8927	6881
55°	4930	4469
65°	971	1075
75°	322	363
85°	187	163
90°	147	83
95°	137	114
105°	156	176
115°	391	325
125°	193	176
135°	69	60
145°	88	55
155°	116	52
165°	74	22
175°	44	4
180°	44	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11894.7
2.5°	11899.7
5°	11953.6
7.5°	12032.5
10°	12148.3
12.5°	12319.0
15°	12465.7
17.5°	12557.5
20°	12606.4
22.5°	12635.4
25°	12644.3
27.5°	12499.6
30°	12000.5
32.5°	11360.7
35°	10703.0
37.5°	10108.1
40°	9543.1
42.5°	9157.9
45°	8927.3
47.5°	8687.7
50°	8125.8
52.5°	6801.3
55°	4929.8
57.5°	3334.8
60°	2086.1
62.5°	1384.4
65°	971.2
67.5°	706.7
70°	526.0
72.5°	402.2
75°	322.4
77.5°	271.5
80°	235.6
82.5°	207.6
85°	186.7
87.5°	169.7
90°	146.7
92.5°	139.7
95°	136.7
97.5°	138.7
100°	145.7
102.5°	150.7
105°	155.7
107.5°	175.7
110°	221.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	306.4
115°	391.3
117.5°	360.3
120°	281.5
122.5°	233.6
125°	192.6
127.5°	153.7
130°	116.8
132.5°	87.8
135°	68.9
137.5°	60.9
140°	61.9
142.5°	71.9
145°	87.8
147.5°	103.8
150°	115.8
152.5°	118.8
155°	115.8
157.5°	107.8
160°	97.8
162.5°	85.8
165°	73.9
167.5°	61.9
170°	50.9
172.5°	45.9
175°	43.9
177.5°	43.9
180°	43.9

(END OF REPORT)