

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: P735823

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L36_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735823
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(5000K_L36_120V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

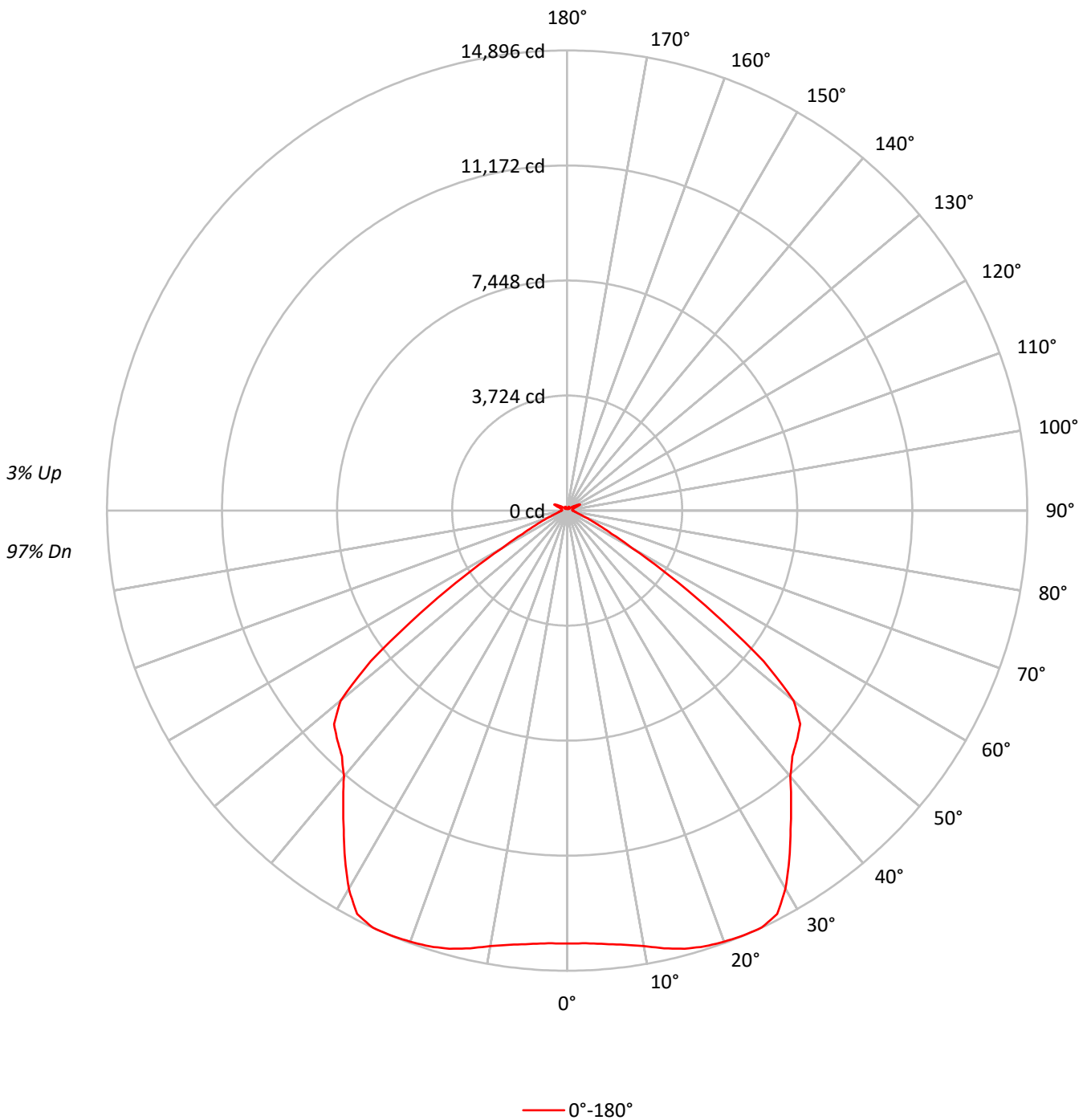
Lumens per Lamp: N/A
Luminaire Lumens: 36752.9 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 238.5
Input Voltage (V): 120
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	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°	65807
5°	62163
10°	60029
15°	59103
20°	57868
25°	56670
30°	52936
35°	46829
40°	41734
45°	39320
50°	36327
55°	22549
60°	9844
65°	4771
70°	2716
75°	1768
80°	1389
85°	1200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39320 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.4	3.7
10°-20°	4158.9	11.3
20°-30°	6820.1	18.6
30°-40°	7909.7	21.5
40°-50°	8106.5	22.1
50°-60°	5265.5	14.3
60°-70°	1266.0	3.4
70°-80°	427.7	1.2
80°-90°	242.5	0.7
90°-100°	180.4	0.5
100°-110°	207.1	0.6
110°-120°	382.3	1.0
120°-130°	207.5	0.6
130°-140°	70.7	0.2
140°-150°	64.4	0.2
150°-160°	61.5	0.2
160°-170°	25.5	0.1
170°-180°	5.2	0.0
0°-30°	12330.4	33.5
0°-40°	20240.0	55.1
0°-60°	33612.1	91.5
0°-90°	35548.3	96.7
90°-120°	769.8	2.1
90°-150°	1112.4	3.0
90°-180°	1205.0	3.3
0°-180°	36752.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14013	
5°	14082	###
15°	14686	4159
25°	14896	6820
35°	12609	7910
45°	10517	8107
55°	5808	5265
65°	1144	1266
75°	380	428
85°	220	191
90°	173	97
95°	161	134
105°	183	207
115°	461	382
125°	227	207
135°	81	71
145°	104	64
155°	136	62
165°	87	26
175°	52	5
180°	52	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	14013.2
2.5°	14019.0
5°	14082.5
7.5°	14175.4
10°	14311.8
12.5°	14512.9
15°	14685.8
17.5°	14794.0
20°	14851.6
22.5°	14885.7
25°	14896.3
27.5°	14725.8
30°	14137.8
32.5°	13384.1
35°	12609.1
37.5°	11908.3
40°	11242.7
42.5°	10788.8
45°	10517.2
47.5°	10235.0
50°	9573.0
52.5°	8012.6
55°	5807.8
57.5°	3928.7
60°	2457.6
62.5°	1631.0
65°	1144.1
67.5°	832.5
70°	619.7
72.5°	473.9
75°	379.8
77.5°	319.8
80°	277.5
82.5°	244.6
85°	219.9
87.5°	199.9
90°	172.9
92.5°	164.6
95°	161.1
97.5°	163.4
100°	171.7
102.5°	177.6
105°	183.4
107.5°	207.0
110°	261.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	361.0
115°	461.0
117.5°	424.5
120°	331.6
122.5°	275.2
125°	226.9
127.5°	181.1
130°	137.6
132.5°	103.5
135°	81.1
137.5°	71.7
140°	72.9
142.5°	84.7
145°	103.5
147.5°	122.3
150°	136.4
152.5°	139.9
155°	136.4
157.5°	127.0
160°	115.2
162.5°	101.1
165°	87.0
167.5°	72.9
170°	60.0
172.5°	54.1
175°	51.7
177.5°	51.7
180°	51.7

(END OF REPORT)