

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: P735778

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L36_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735778
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: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L36_120V)
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

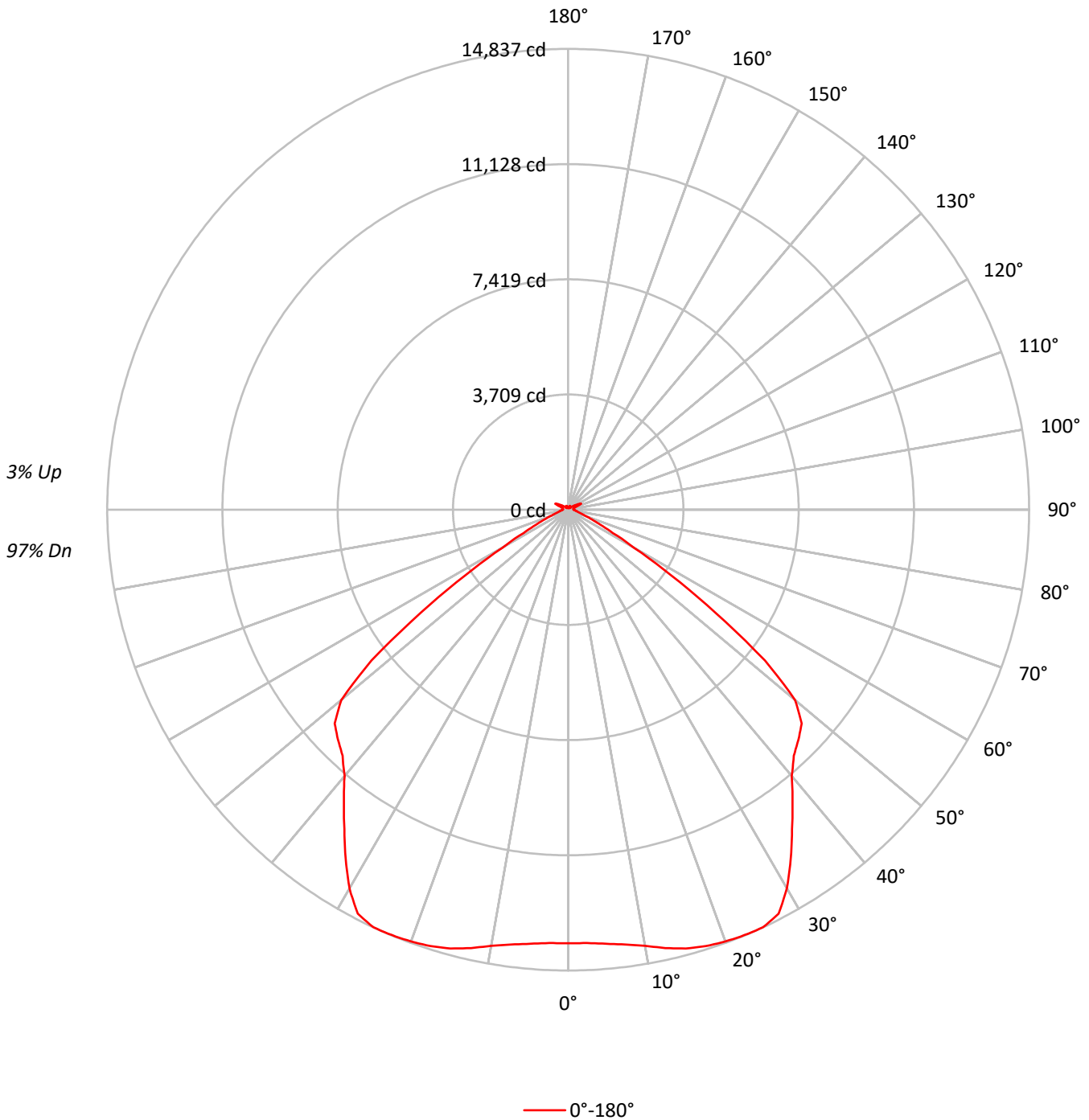
Lumens per Lamp: N/A
Luminaire Lumens: 36606.0 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 239.9
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°	65544
5°	61914
10°	59789
15°	58867
20°	57637
25°	56443
30°	52724
35°	46642
40°	41567
45°	39163
50°	36182
55°	22459
60°	9805
65°	4752
70°	2705
75°	1761
80°	1383
85°	1195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39163 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1346.0	3.7
10°-20°	4142.3	11.3
20°-30°	6792.8	18.6
30°-40°	7878.1	21.5
40°-50°	8074.1	22.1
50°-60°	5244.4	14.3
60°-70°	1260.9	3.4
70°-80°	426.0	1.2
80°-90°	241.5	0.7
90°-100°	179.7	0.5
100°-110°	206.3	0.6
110°-120°	380.8	1.0
120°-130°	206.7	0.6
130°-140°	70.4	0.2
140°-150°	64.1	0.2
150°-160°	61.3	0.2
160°-170°	25.4	0.1
170°-180°	5.2	0.0
0°-30°	12281.0	33.5
0°-40°	20159.1	55.1
0°-60°	33477.6	91.5
0°-90°	35406.1	96.7
90°-120°	766.8	2.1
90°-150°	1108.0	3.0
90°-180°	1200.0	3.3
0°-180°	36606.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13957	
5°	14026	###
15°	14627	4142
25°	14837	6793
35°	12559	7878
45°	10475	8074
55°	5784	5244
65°	1140	1261
75°	378	426
85°	219	191
90°	172	97
95°	160	134
105°	183	206
115°	459	381
125°	226	207
135°	81	70
145°	103	64
155°	136	61
165°	87	25
175°	52	5
180°	52	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	13957.1
2.5°	13963.0
5°	14026.2
7.5°	14118.7
10°	14254.6
12.5°	14454.9
15°	14627.0
17.5°	14734.8
20°	14792.2
22.5°	14826.1
25°	14836.7
27.5°	14666.9
30°	14081.3
32.5°	13330.5
35°	12558.7
37.5°	11860.7
40°	11197.8
42.5°	10745.7
45°	10475.2
47.5°	10194.1
50°	9534.7
52.5°	7980.5
55°	5784.5
57.5°	3913.0
60°	2447.8
62.5°	1624.4
65°	1139.6
67.5°	829.2
70°	617.2
72.5°	472.0
75°	378.3
77.5°	318.6
80°	276.4
82.5°	243.6
85°	219.0
87.5°	199.1
90°	172.2
92.5°	164.0
95°	160.5
97.5°	162.8
100°	171.0
102.5°	176.9
105°	182.7
107.5°	206.1
110°	260.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	359.6
115°	459.1
117.5°	422.8
120°	330.3
122.5°	274.1
125°	226.0
127.5°	180.4
130°	137.0
132.5°	103.1
135°	80.8
137.5°	71.4
140°	72.6
142.5°	84.3
145°	103.1
147.5°	121.8
150°	135.9
152.5°	139.4
155°	135.9
157.5°	126.5
160°	114.8
162.5°	100.7
165°	86.7
167.5°	72.6
170°	59.7
172.5°	53.9
175°	51.5
177.5°	51.5
180°	51.5

(END OF REPORT)