

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: P735789

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

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-TRWH(4000K_L36_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

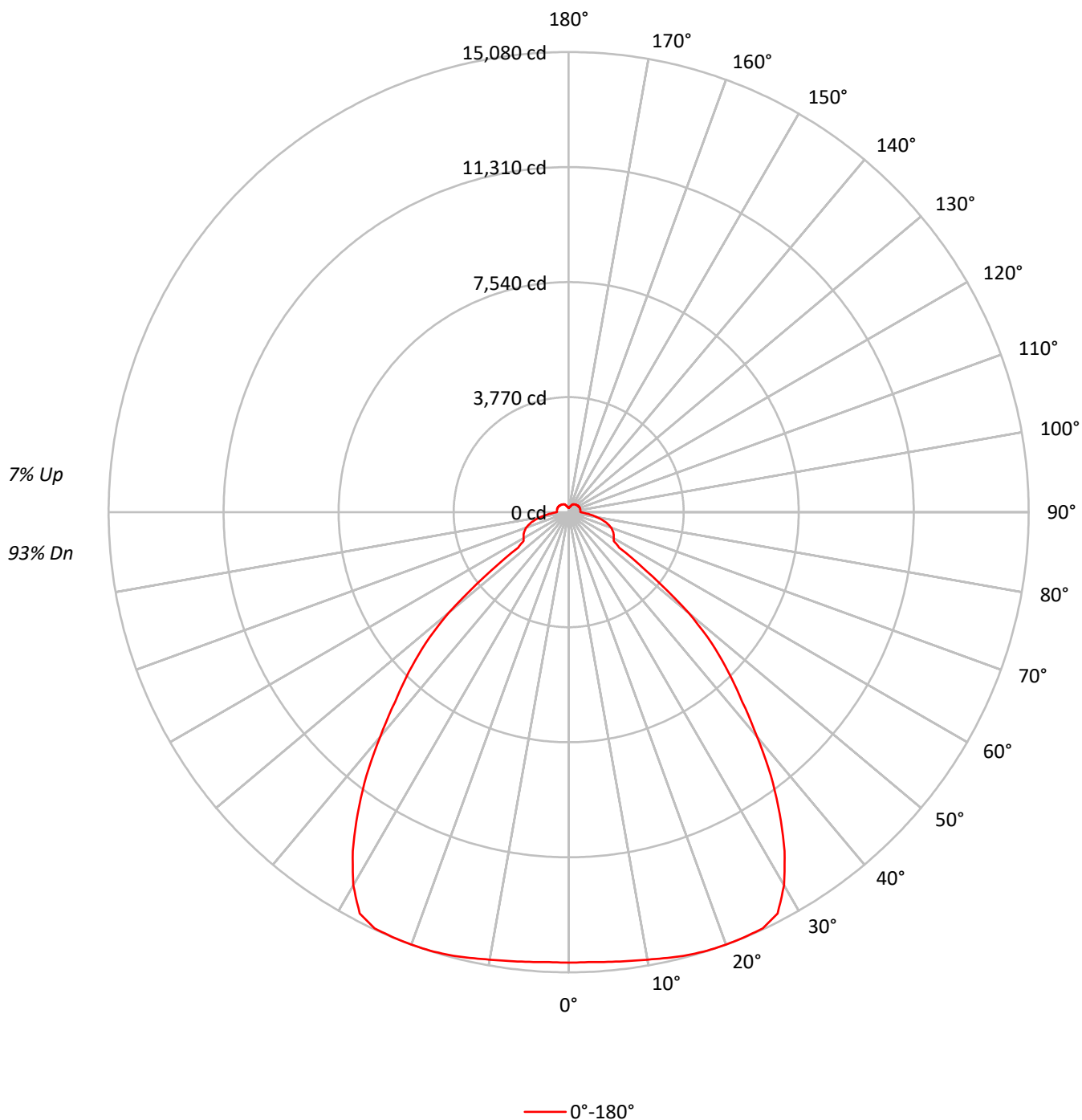
Lumens per Lamp: N/A
Luminaire Lumens: 33874.8 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

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	50	30	10	50	30	10		
RCR																									
0	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	96	96	96	96	96			
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	84	84	84	84	81			
2	101	94	88	83	98	91	86	81	87	82	79	83	79	76	79	76	73	73	73	73	73	71			
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	65	65	65	65	63			
4	86	76	69	63	84	74	67	62	71	65	60	68	63	59	65	61	58	58	58	58	58	55			
5	80	69	61	56	78	68	60	55	65	59	54	62	57	53	60	55	52	52	52	52	52	50			
6	75	63	55	50	73	62	54	49	60	53	48	57	52	47	55	50	46	46	46	46	46	44			
7	70	58	50	45	68	57	49	44	55	48	43	53	47	43	51	46	42	42	42	42	42	40			
8	65	53	46	40	64	52	45	40	51	44	39	49	43	39	47	42	38	38	38	38	38	36			
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	35	35	35	35	33			
10	58	46	38	34	56	45	38	33	43	37	33	42	37	33	41	36	32	32	32	32	32	30			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69320
5°	65296
10°	62452
15°	60490
20°	58756
25°	57241
30°	52857
35°	44810
40°	35677
45°	27690
50°	19448
55°	7853
60°	6837
65°	6754
70°	6486
75°	5803
80°	4704
85°	3436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27690 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1415.1	4.2
10°-20°	4258.1	12.6
20°-30°	6879.6	20.3
30°-40°	7481.5	22.1
40°-50°	5679.1	16.8
50°-60°	2358.9	7.0
60°-70°	1596.5	4.7
70°-80°	1301.9	3.8
80°-90°	697.9	2.1
90°-100°	422.0	1.2
100°-110°	414.2	1.2
110°-120°	382.3	1.1
120°-130°	329.4	1.0
130°-140°	265.3	0.8
140°-150°	198.4	0.6
150°-160°	124.4	0.4
160°-170°	55.5	0.2
170°-180°	14.9	0.0
0°-30°	12552.8	37.1
0°-40°	20034.2	59.1
0°-60°	28072.3	82.9
0°-90°	31668.5	93.5
90°-120°	1218.5	3.6
90°-150°	2011.6	5.9
90°-180°	2206.0	6.5
0°-180°	33874.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14761	
5°	14792	###
15°	15030	4258
25°	15046	6880
35°	12065	7481
45°	7406	5679
55°	2023	2359
65°	1620	1596
75°	1247	1302
85°	630	578
90°	389	225
95°	386	316
105°	393	414
115°	386	382
125°	368	329
135°	342	265
145°	315	198
155°	268	124
165°	191	56
175°	152	15
180°	145	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	14761.3
2.5°	14759.0
5°	14792.2
7.5°	14835.7
10°	14889.5
12.5°	14959.3
15°	15030.3
17.5°	15070.3
20°	15079.5
22.5°	15071.5
25°	15046.3
27.5°	14826.5
30°	14116.8
32.5°	13171.2
35°	12065.4
37.5°	10889.8
40°	9611.1
42.5°	8424.1
45°	7406.4
47.5°	6370.4
50°	5124.9
52.5°	3460.5
55°	2022.7
57.5°	1750.3
60°	1706.8
62.5°	1667.9
65°	1619.8
67.5°	1558.0
70°	1480.1
72.5°	1376.0
75°	1246.6
77.5°	1097.8
80°	939.8
82.5°	784.1
85°	629.6
87.5°	483.1
90°	389.2
92.5°	382.3
95°	385.8
97.5°	389.2
100°	390.4
102.5°	391.5
105°	392.6
107.5°	391.5
110°	390.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	388.1
115°	385.8
117.5°	382.3
120°	377.8
122.5°	373.2
125°	367.5
127.5°	360.6
130°	354.9
132.5°	349.1
135°	342.3
137.5°	335.4
140°	329.7
142.5°	322.8
145°	314.8
147.5°	307.9
150°	301.1
152.5°	286.2
155°	267.9
157.5°	247.3
160°	227.8
162.5°	208.3
165°	191.2
167.5°	176.3
170°	161.4
172.5°	158.0
175°	152.2
177.5°	147.7
180°	145.4

(END OF REPORT)