

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: P735831

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(5000K_L31_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735831
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(5000K_L31_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 2 - 31,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

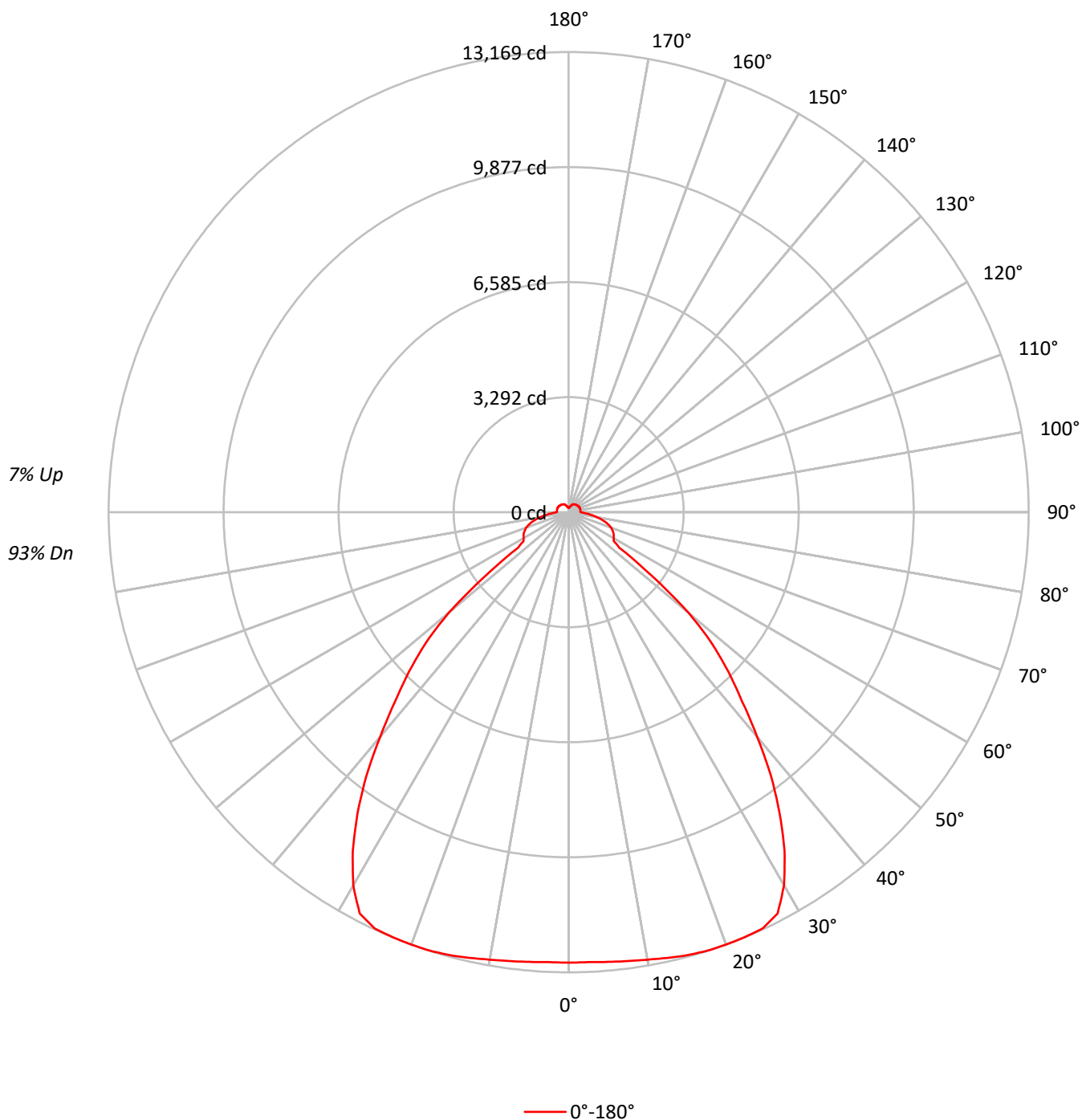
Lumens per Lamp: N/A
Luminaire Lumens: 29583.7 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 187.6
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93		
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81		
2	101	94	88	83	98	91	86	81	87	82	79	83	79	76	79	76	73	71		
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63		
4	86	76	69	63	84	74	67	62	71	65	60	68	63	59	65	61	58	55		
5	80	69	61	56	78	68	60	55	65	59	54	62	57	53	60	55	52	50		
6	75	63	55	50	73	62	54	49	60	53	48	57	52	47	55	50	46	44		
7	70	58	50	45	68	57	49	44	55	48	43	53	47	43	51	46	42	40		
8	65	53	46	40	64	52	45	40	51	44	39	49	43	39	47	42	38	36		
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	33		
10	58	46	38	34	56	45	38	33	43	37	33	42	37	33	41	36	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60539
5°	57024
10°	54541
15°	52827
20°	51313
25°	49990
30°	46161
35°	39134
40°	31158
45°	24183
50°	16985
55°	6859
60°	5971
65°	5898
70°	5665
75°	5068
80°	4108
85°	3000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24183 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.8	4.2
10°-20°	3718.7	12.6
20°-30°	6008.1	20.3
30°-40°	6533.8	22.1
40°-50°	4959.7	16.8
50°-60°	2060.2	7.0
60°-70°	1394.2	4.7
70°-80°	1137.0	3.8
80°-90°	609.5	2.1
90°-100°	368.5	1.2
100°-110°	361.7	1.2
110°-120°	333.9	1.1
120°-130°	287.6	1.0
130°-140°	231.7	0.8
140°-150°	173.2	0.6
150°-160°	108.6	0.4
160°-170°	48.5	0.2
170°-180°	13.0	0.0
0°-30°	10962.7	37.1
0°-40°	17496.4	59.1
0°-60°	24516.3	82.9
0°-90°	27657.0	93.5
90°-120°	1064.1	3.6
90°-150°	1756.7	5.9
90°-180°	1927.0	6.5
0°-180°	29583.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12891	
5°	12918	###
15°	13126	3719
25°	13140	6008
35°	10537	6534
45°	6468	4960
55°	1766	2060
65°	1415	1394
75°	1089	1137
85°	550	505
90°	340	197
95°	337	276
105°	343	362
115°	337	334
125°	321	288
135°	299	232
145°	275	173
155°	234	109
165°	167	49
175°	133	13
180°	127	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12891.4
2.5°	12889.4
5°	12918.4
7.5°	12956.4
10°	13003.4
12.5°	13064.4
15°	13126.3
17.5°	13161.3
20°	13169.3
22.5°	13162.3
25°	13140.3
27.5°	12948.4
30°	12328.6
32.5°	11502.8
35°	10537.1
37.5°	9510.3
40°	8393.7
42.5°	7356.9
45°	6468.2
47.5°	5563.4
50°	4475.8
52.5°	3022.2
55°	1766.5
57.5°	1528.6
60°	1490.6
62.5°	1456.6
65°	1414.6
67.5°	1360.6
70°	1292.6
72.5°	1201.7
75°	1088.7
77.5°	958.7
80°	820.8
82.5°	684.8
85°	549.8
87.5°	421.9
90°	339.9
92.5°	333.9
95°	336.9
97.5°	339.9
100°	340.9
102.5°	341.9
105°	342.9
107.5°	341.9
110°	340.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	338.9
115°	336.9
117.5°	333.9
120°	329.9
122.5°	325.9
125°	320.9
127.5°	314.9
130°	309.9
132.5°	304.9
135°	298.9
137.5°	292.9
140°	287.9
142.5°	281.9
145°	274.9
147.5°	268.9
150°	262.9
152.5°	249.9
155°	233.9
157.5°	215.9
160°	198.9
162.5°	181.9
165°	167.0
167.5°	154.0
170°	141.0
172.5°	138.0
175°	133.0
177.5°	129.0
180°	127.0

(END OF REPORT)