

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: P735786

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

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735786
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_L31_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 2 - 31,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

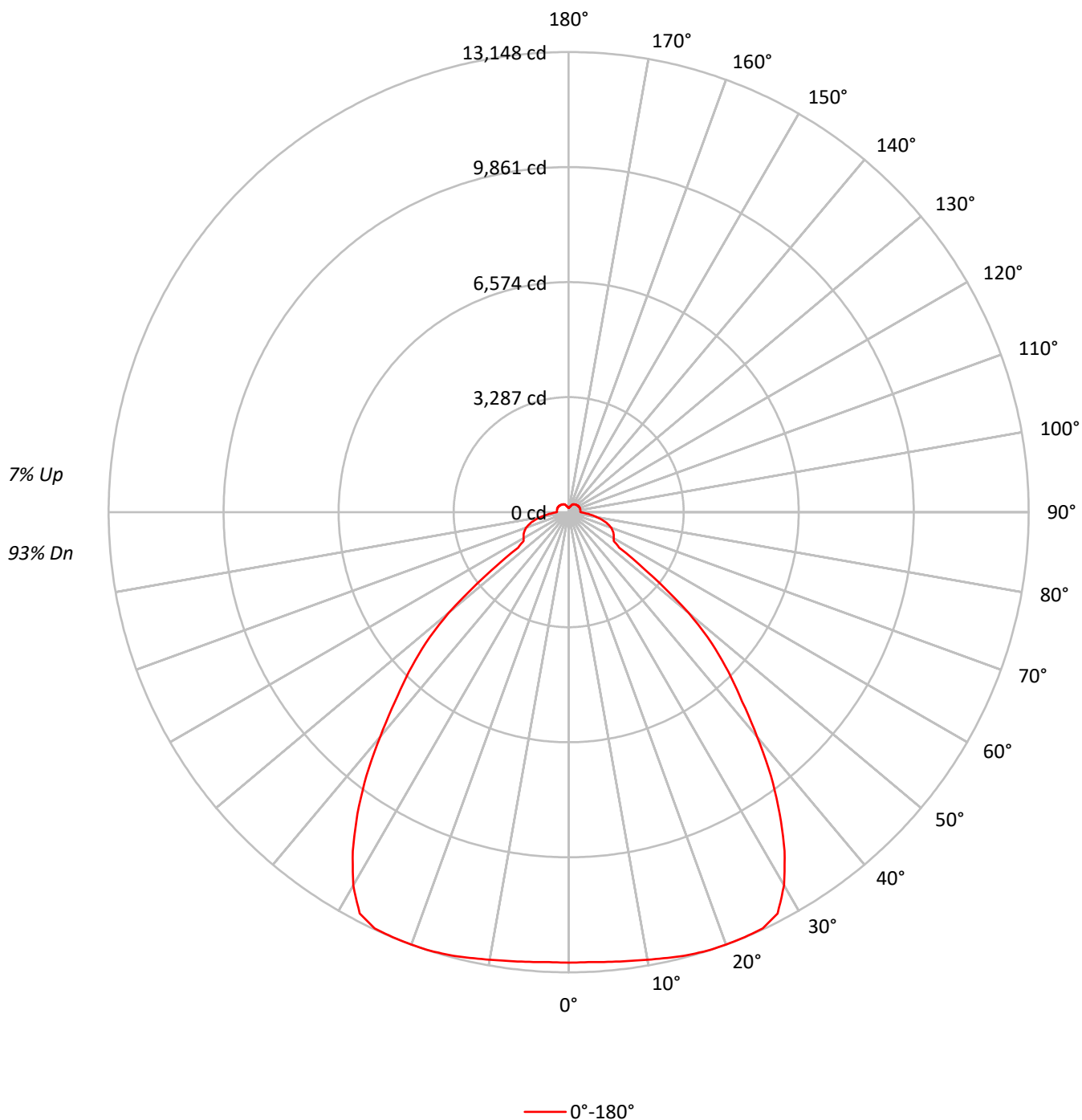
Lumens per Lamp: N/A
Luminaire Lumens: 29536.9 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 187.3
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°	60443
5°	56934
10°	54454
15°	52743
20°	51232
25°	49910
30°	46088
35°	39071
40°	31108
45°	24144
50°	16957
55°	6848
60°	5961
65°	5889
70°	5656
75°	5060
80°	4102
85°	2996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24144 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1233.9	4.2
10°-20°	3712.8	12.6
20°-30°	5998.6	20.3
30°-40°	6523.4	22.1
40°-50°	4951.8	16.8
50°-60°	2056.9	7.0
60°-70°	1392.1	4.7
70°-80°	1135.2	3.8
80°-90°	608.5	2.1
90°-100°	368.0	1.2
100°-110°	361.2	1.2
110°-120°	333.4	1.1
120°-130°	287.2	1.0
130°-140°	231.4	0.8
140°-150°	173.0	0.6
150°-160°	108.4	0.4
160°-170°	48.4	0.2
170°-180°	13.0	0.0
0°-30°	10945.3	37.1
0°-40°	17468.6	59.1
0°-60°	24477.3	82.9
0°-90°	27613.1	93.5
90°-120°	1062.5	3.6
90°-150°	1754.0	5.9
90°-180°	1924.0	6.5
0°-180°	29536.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12871	
5°	12898	###
15°	13106	3713
25°	13120	5999
35°	10520	6523
45°	6458	4952
55°	1764	2057
65°	1412	1392
75°	1087	1135
85°	549	504
90°	339	196
95°	336	276
105°	342	361
115°	336	333
125°	320	287
135°	298	231
145°	274	173
155°	234	108
165°	167	48
175°	133	13
180°	127	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12870.9
2.5°	12868.9
5°	12897.9
7.5°	12935.8
10°	12982.7
12.5°	13043.6
15°	13105.5
17.5°	13140.4
20°	13148.4
22.5°	13141.4
25°	13119.5
27.5°	12927.8
30°	12309.0
32.5°	11484.5
35°	10520.3
37.5°	9495.2
40°	8380.3
42.5°	7345.3
45°	6457.9
47.5°	5554.6
50°	4468.6
52.5°	3017.4
55°	1763.7
57.5°	1526.1
60°	1488.2
62.5°	1454.3
65°	1412.4
67.5°	1358.5
70°	1290.6
72.5°	1199.8
75°	1087.0
77.5°	957.2
80°	819.5
82.5°	683.7
85°	549.0
87.5°	421.2
90°	339.4
92.5°	333.4
95°	336.4
97.5°	339.4
100°	340.4
102.5°	341.4
105°	342.4
107.5°	341.4
110°	340.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	338.4
115°	336.4
117.5°	333.4
120°	329.4
122.5°	325.4
125°	320.4
127.5°	314.4
130°	309.4
132.5°	304.4
135°	298.4
137.5°	292.5
140°	287.5
142.5°	281.5
145°	274.5
147.5°	268.5
150°	262.5
152.5°	249.5
155°	233.6
157.5°	215.6
160°	198.6
162.5°	181.7
165°	166.7
167.5°	153.7
170°	140.7
172.5°	137.7
175°	132.8
177.5°	128.8
180°	126.8

(END OF REPORT)