

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: P735783

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(4000K_L24_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735783
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_L24_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

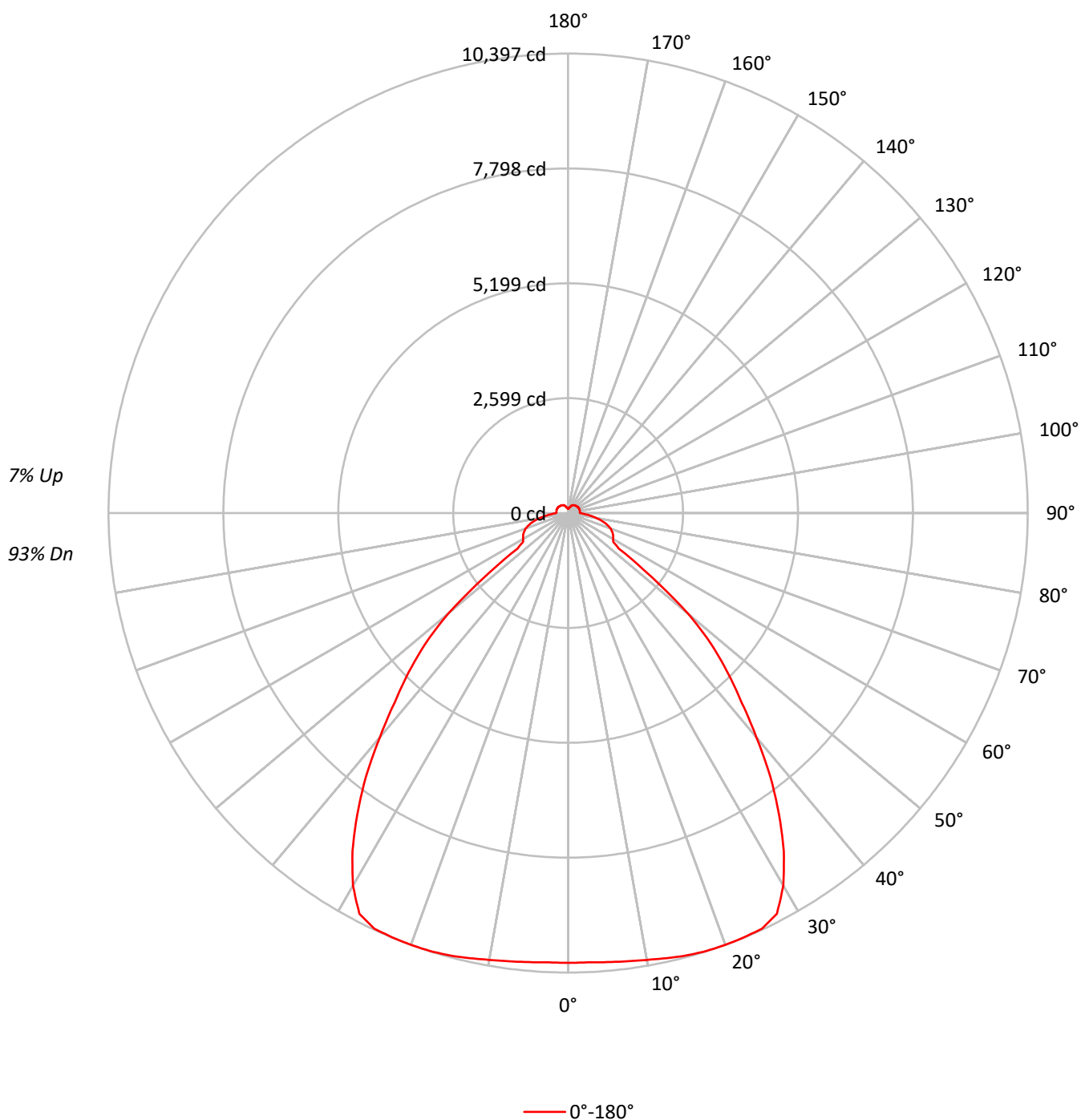
Lumens per Lamp: N/A
Luminaire Lumens: 23355.5 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 143.9
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°	47794
5°	45019
10°	43058
15°	41705
20°	40510
25°	39465
30°	36443
35°	30895
40°	24598
45°	19091
50°	13409
55°	5415
60°	4714
65°	4657
70°	4472
75°	4001
80°	3243
85°	2369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.7	4.2
10°-20°	2935.8	12.6
20°-30°	4743.2	20.3
30°-40°	5158.2	22.1
40°-50°	3915.5	16.8
50°-60°	1626.4	7.0
60°-70°	1100.7	4.7
70°-80°	897.6	3.8
80°-90°	481.2	2.1
90°-100°	290.9	1.2
100°-110°	285.5	1.2
110°-120°	263.6	1.1
120°-130°	227.1	1.0
130°-140°	182.9	0.8
140°-150°	136.8	0.6
150°-160°	85.7	0.4
160°-170°	38.3	0.2
170°-180°	10.2	0.0
0°-30°	8654.7	37.1
0°-40°	13812.9	59.1
0°-60°	19354.9	82.9
0°-90°	21834.4	93.5
90°-120°	840.0	3.6
90°-150°	1386.8	5.9
90°-180°	1521.0	6.5
0°-180°	23355.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10177	
5°	10199	976
15°	10363	2936
25°	10374	4743
35°	8319	5158
45°	5106	3916
55°	1395	1626
65°	1117	1101
75°	860	898
85°	434	399
90°	268	155
95°	266	218
105°	271	286
115°	266	264
125°	253	227
135°	236	183
145°	217	137
155°	185	86
165°	132	38
175°	105	10
180°	100	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10177.4
2.5°	10175.8
5°	10198.7
7.5°	10228.7
10°	10265.8
12.5°	10313.9
15°	10362.8
17.5°	10390.5
20°	10396.8
22.5°	10391.2
25°	10373.9
27.5°	10222.4
30°	9733.0
32.5°	9081.1
35°	8318.7
37.5°	7508.1
40°	6626.5
42.5°	5808.1
45°	5106.4
47.5°	4392.2
50°	3533.5
52.5°	2385.9
55°	1394.6
57.5°	1206.8
60°	1176.8
62.5°	1149.9
65°	1116.8
67.5°	1074.2
70°	1020.5
72.5°	948.7
75°	859.5
77.5°	756.9
80°	648.0
82.5°	540.6
85°	434.1
87.5°	333.1
90°	268.3
92.5°	263.6
95°	266.0
97.5°	268.3
100°	269.1
102.5°	269.9
105°	270.7
107.5°	269.9
110°	269.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	267.6
115°	266.0
117.5°	263.6
120°	260.5
122.5°	257.3
125°	253.3
127.5°	248.6
130°	244.7
132.5°	240.7
135°	236.0
137.5°	231.2
140°	227.3
142.5°	222.6
145°	217.0
147.5°	212.3
150°	207.6
152.5°	197.3
155°	184.7
157.5°	170.5
160°	157.1
162.5°	143.6
165°	131.8
167.5°	121.5
170°	111.3
172.5°	108.9
175°	105.0
177.5°	101.8
180°	100.2

(END OF REPORT)