

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: P735788

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(4000K_L36_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735788
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: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-TRWH(4000K_L36_277V)
Description: PRENATALUX 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

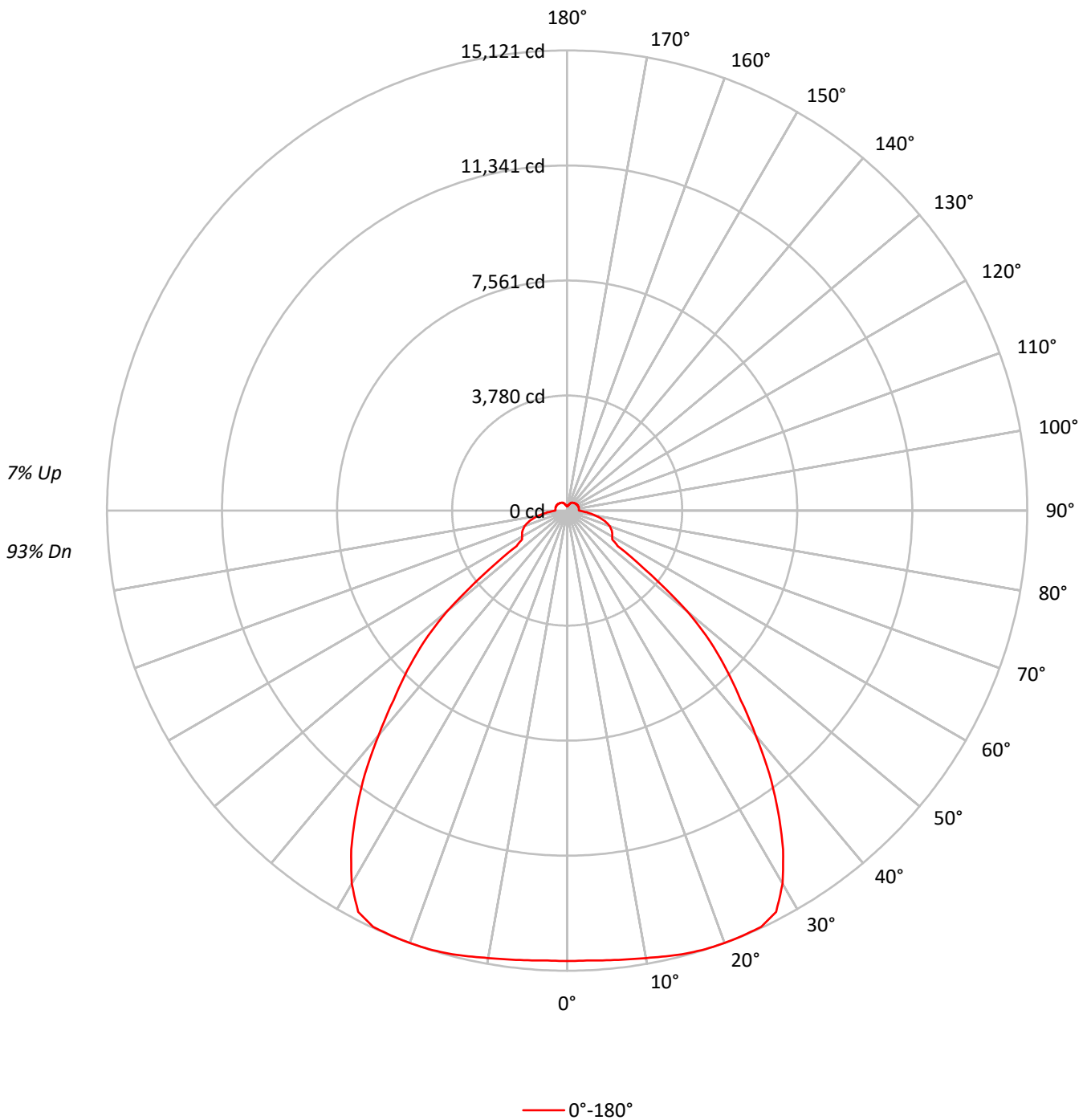
Lumens per Lamp: N/A
Luminaire Lumens: 33967.7 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 230.9
Input Voltage (V): 277
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	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°	69510
5°	65474
10°	62623
15°	60656
20°	58917
25°	57398
30°	53002
35°	44933
40°	35775
45°	27766
50°	19501
55°	7875
60°	6856
65°	6772
70°	6504
75°	5819
80°	4717
85°	3445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27766 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1419.0	4.2
10°-20°	4269.8	12.6
20°-30°	6898.5	20.3
30°-40°	7502.0	22.1
40°-50°	5694.7	16.8
50°-60°	2365.4	7.0
60°-70°	1600.8	4.7
70°-80°	1305.4	3.8
80°-90°	699.8	2.1
90°-100°	423.1	1.2
100°-110°	415.3	1.2
110°-120°	383.3	1.1
120°-130°	330.3	1.0
130°-140°	266.1	0.8
140°-150°	198.9	0.6
150°-160°	124.7	0.4
160°-170°	55.7	0.2
170°-180°	14.9	0.0
0°-30°	12587.2	37.1
0°-40°	20089.2	59.1
0°-60°	28149.3	82.9
0°-90°	31755.4	93.5
90°-120°	1221.8	3.6
90°-150°	2017.1	5.9
90°-180°	2212.0	6.5
0°-180°	33967.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14802	
5°	14833	###
15°	15072	4270
25°	15088	6898
35°	12098	7502
45°	7427	5695
55°	2028	2365
65°	1624	1601
75°	1250	1305
85°	631	580
90°	390	226
95°	387	317
105°	394	415
115°	387	383
125°	368	330
135°	343	266
145°	316	199
155°	269	125
165°	192	56
175°	153	15
180°	146	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	14801.7
2.5°	14799.4
5°	14832.7
7.5°	14876.4
10°	14930.3
12.5°	15000.3
15°	15071.5
17.5°	15111.7
20°	15120.8
22.5°	15112.8
25°	15087.6
27.5°	14867.2
30°	14155.5
32.5°	13207.4
35°	12098.5
37.5°	10919.7
40°	9637.5
42.5°	8447.2
45°	7426.7
47.5°	6387.9
50°	5139.0
52.5°	3470.0
55°	2028.3
57.5°	1755.1
60°	1711.5
62.5°	1672.4
65°	1624.2
67.5°	1562.2
70°	1484.2
72.5°	1379.7
75°	1250.0
77.5°	1100.8
80°	942.4
82.5°	786.3
85°	631.3
87.5°	484.4
90°	390.3
92.5°	383.4
95°	386.8
97.5°	390.3
100°	391.4
102.5°	392.6
105°	393.7
107.5°	392.6
110°	391.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	389.1
115°	386.8
117.5°	383.4
120°	378.8
122.5°	374.2
125°	368.5
127.5°	361.6
130°	355.8
132.5°	350.1
135°	343.2
137.5°	336.3
140°	330.6
142.5°	323.7
145°	315.7
147.5°	308.8
150°	301.9
152.5°	287.0
155°	268.6
157.5°	247.9
160°	228.4
162.5°	208.9
165°	191.7
167.5°	176.8
170°	161.8
172.5°	158.4
175°	152.7
177.5°	148.1
180°	145.8

(END OF REPORT)