

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: P735833

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(5000K_L36_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735833
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(5000K_L36_277V)
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 3 - 36,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

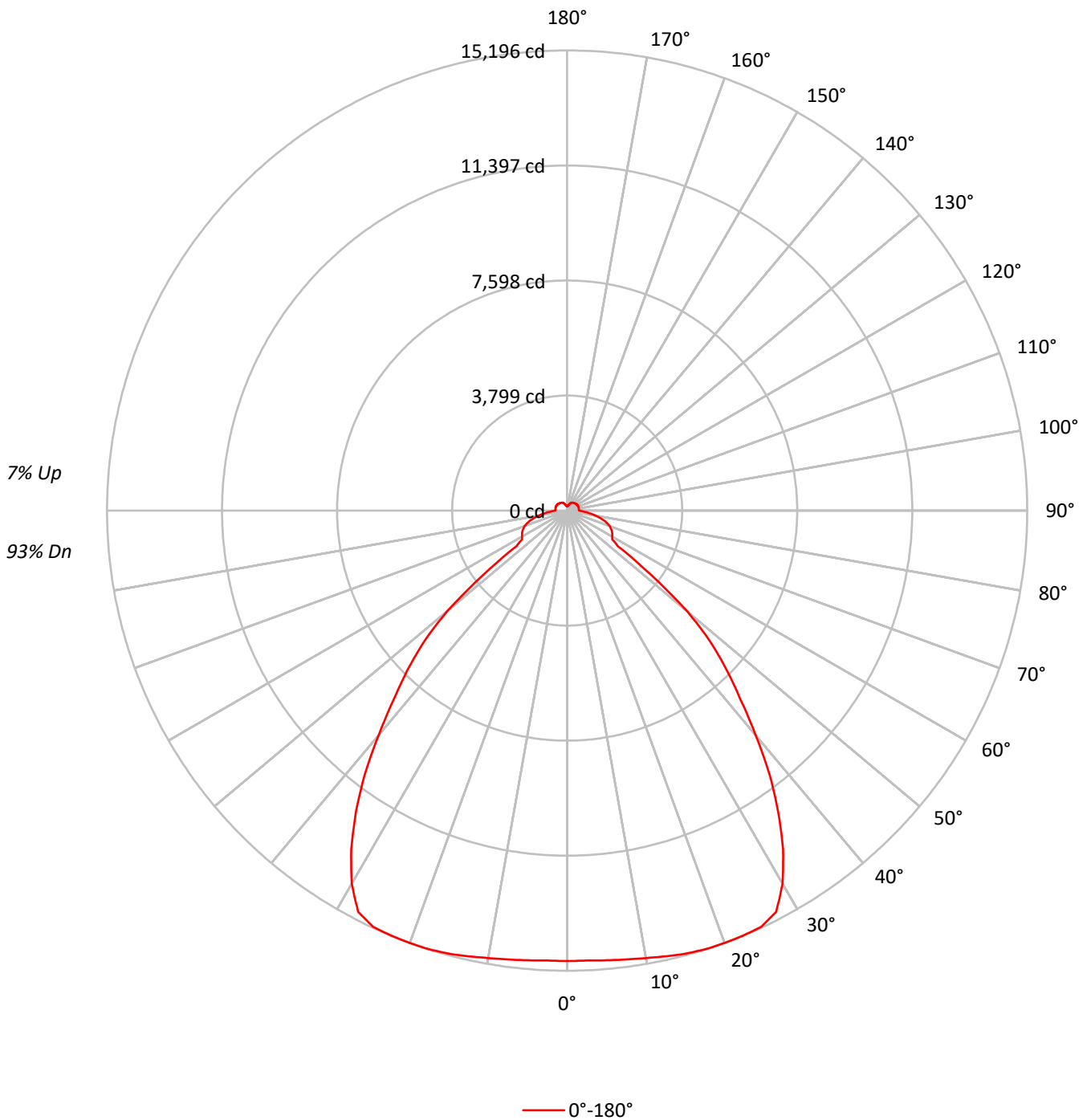
Lumens per Lamp: N/A
Luminaire Lumens: 34137.1 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 229.9
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°	69857
5°	65801
10°	62935
15°	60958
20°	59211
25°	57684
30°	53266
35°	45157
40°	35954
45°	27904
50°	19598
55°	7914
60°	6890
65°	6806
70°	6537
75°	5849
80°	4741
85°	3462

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27904 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1426.0	4.2
10°-20°	4291.1	12.6
20°-30°	6932.9	20.3
30°-40°	7539.4	22.1
40°-50°	5723.0	16.8
50°-60°	2377.2	7.0
60°-70°	1608.8	4.7
70°-80°	1312.0	3.8
80°-90°	703.3	2.1
90°-100°	425.3	1.2
100°-110°	417.4	1.2
110°-120°	385.3	1.1
120°-130°	331.9	1.0
130°-140°	267.4	0.8
140°-150°	199.9	0.6
150°-160°	125.3	0.4
160°-170°	56.0	0.2
170°-180°	15.0	0.0
0°-30°	12650.0	37.1
0°-40°	20189.4	59.1
0°-60°	28289.6	82.9
0°-90°	31913.7	93.5
90°-120°	1227.9	3.6
90°-150°	2027.1	5.9
90°-180°	2223.0	6.5
0°-180°	34137.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14876	
5°	14907	###
15°	15147	4291
25°	15163	6933
35°	12159	7539
45°	7464	5723
55°	2038	2377
65°	1632	1609
75°	1256	1312
85°	634	583
90°	392	227
95°	389	319
105°	396	417
115°	389	385
125°	370	332
135°	345	267
145°	317	200
155°	270	125
165°	193	56
175°	153	15
180°	146	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	14875.6
2.5°	14873.3
5°	14906.7
7.5°	14950.5
10°	15004.8
12.5°	15075.1
15°	15146.7
17.5°	15187.0
20°	15196.3
22.5°	15188.2
25°	15162.8
27.5°	14941.3
30°	14226.1
32.5°	13273.2
35°	12158.9
37.5°	10974.1
40°	9685.6
42.5°	8489.3
45°	7463.7
47.5°	6419.7
50°	5164.6
52.5°	3487.3
55°	2038.4
57.5°	1763.8
60°	1720.0
62.5°	1680.8
65°	1632.3
67.5°	1570.0
70°	1491.6
72.5°	1386.6
75°	1256.3
77.5°	1106.3
80°	947.1
82.5°	790.2
85°	634.5
87.5°	486.8
90°	392.2
92.5°	385.3
95°	388.8
97.5°	392.2
100°	393.4
102.5°	394.5
105°	395.7
107.5°	394.5
110°	393.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	391.1
115°	388.8
117.5°	385.3
120°	380.7
122.5°	376.1
125°	370.3
127.5°	363.4
130°	357.6
132.5°	351.8
135°	344.9
137.5°	338.0
140°	332.2
142.5°	325.3
145°	317.2
147.5°	310.3
150°	303.4
152.5°	288.4
155°	269.9
157.5°	249.2
160°	229.6
162.5°	210.0
165°	192.6
167.5°	177.7
170°	162.7
172.5°	159.2
175°	153.4
177.5°	148.8
180°	146.5

(END OF REPORT)