

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: P735830

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(5000K_L31_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735830
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_L31_277V)
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

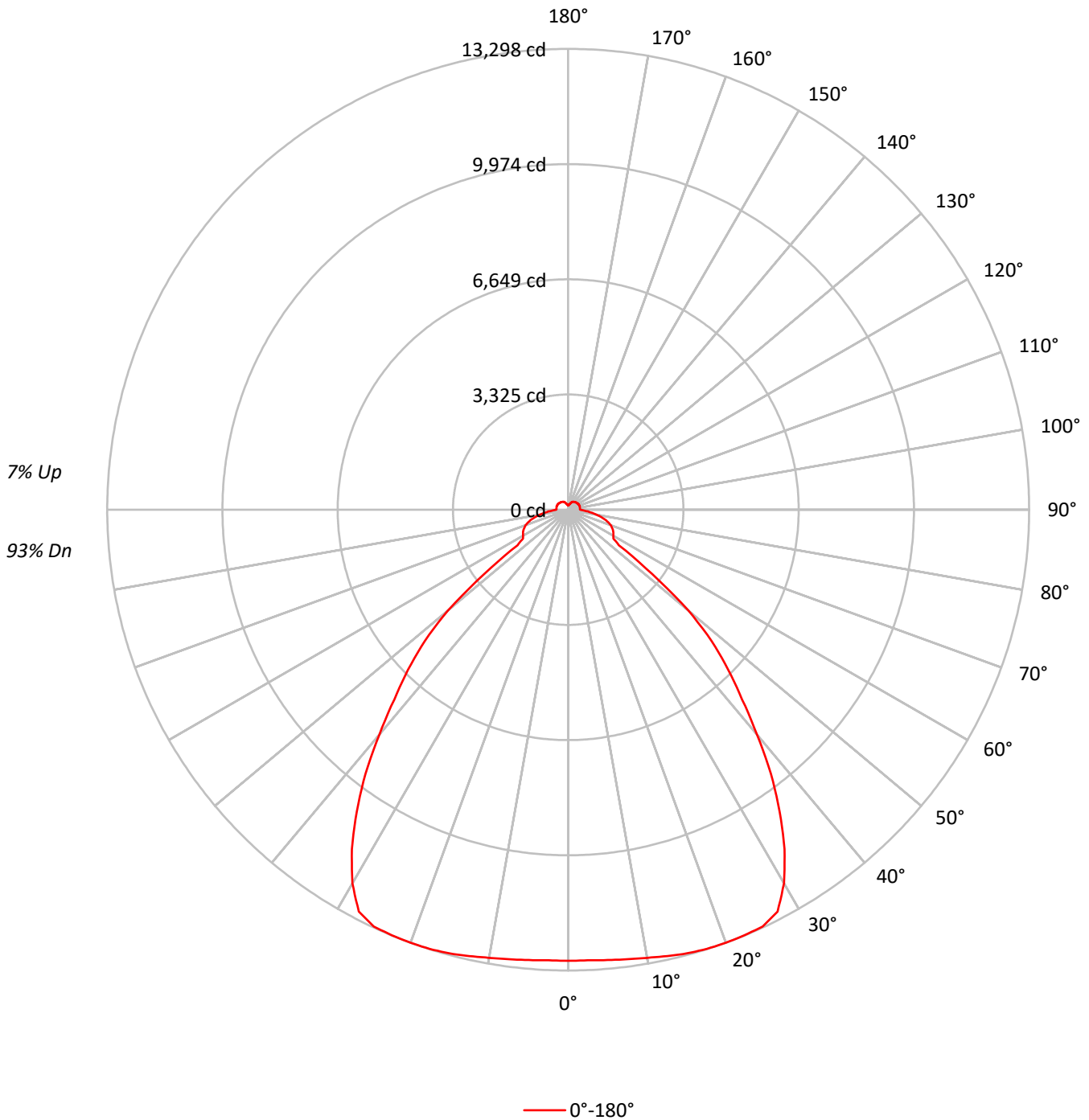
Lumens per Lamp: N/A
Luminaire Lumens: 29871.9 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 187.9
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°	61128
5°	57580
10°	55072
15°	53342
20°	51813
25°	50477
30°	46611
35°	39515
40°	31461
45°	24418
50°	17150
55°	6925
60°	6029
65°	5956
70°	5720
75°	5118
80°	4148
85°	3030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24418 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.9	4.2
10°-20°	3754.9	12.6
20°-30°	6066.6	20.3
30°-40°	6597.4	22.1
40°-50°	5008.0	16.8
50°-60°	2080.2	7.0
60°-70°	1407.8	4.7
70°-80°	1148.0	3.8
80°-90°	615.4	2.1
90°-100°	372.1	1.2
100°-110°	365.2	1.2
110°-120°	337.1	1.1
120°-130°	290.4	1.0
130°-140°	234.0	0.8
140°-150°	174.9	0.6
150°-160°	109.6	0.4
160°-170°	49.0	0.2
170°-180°	13.1	0.0
0°-30°	11069.4	37.1
0°-40°	17666.8	59.1
0°-60°	24755.0	82.9
0°-90°	27926.4	93.5
90°-120°	1074.4	3.6
90°-150°	1773.8	5.9
90°-180°	1946.0	6.5
0°-180°	29871.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13017	
5°	13044	###
15°	13254	3755
25°	13268	6067
35°	10640	6597
45°	6531	5008
55°	1784	2080
65°	1428	1408
75°	1099	1148
85°	555	510
90°	343	199
95°	340	279
105°	346	365
115°	340	337
125°	324	290
135°	302	234
145°	278	175
155°	236	110
165°	169	49
175°	134	13
180°	128	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	13016.9
2.5°	13014.9
5°	13044.2
7.5°	13082.6
10°	13130.0
12.5°	13191.6
15°	13254.2
17.5°	13289.5
20°	13297.6
22.5°	13290.5
25°	13268.3
27.5°	13074.5
30°	12448.6
32.5°	11614.8
35°	10639.7
37.5°	9603.0
40°	8475.4
42.5°	7428.6
45°	6531.2
47.5°	5617.6
50°	4519.3
52.5°	3051.6
55°	1783.7
57.5°	1543.5
60°	1505.1
62.5°	1470.8
65°	1428.4
67.5°	1373.9
70°	1305.2
72.5°	1213.4
75°	1099.3
77.5°	968.1
80°	828.8
82.5°	691.5
85°	555.2
87.5°	426.0
90°	343.2
92.5°	337.2
95°	340.2
97.5°	343.2
100°	344.2
102.5°	345.2
105°	346.2
107.5°	345.2
110°	344.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	342.2
115°	340.2
117.5°	337.2
120°	333.1
122.5°	329.1
125°	324.0
127.5°	318.0
130°	312.9
132.5°	307.9
135°	301.8
137.5°	295.8
140°	290.7
142.5°	284.7
145°	277.6
147.5°	271.5
150°	265.5
152.5°	252.4
155°	236.2
157.5°	218.0
160°	200.9
162.5°	183.7
165°	168.6
167.5°	155.5
170°	142.3
172.5°	139.3
175°	134.3
177.5°	130.2
180°	128.2

(END OF REPORT)