

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: P735800

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L24_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L24_277V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

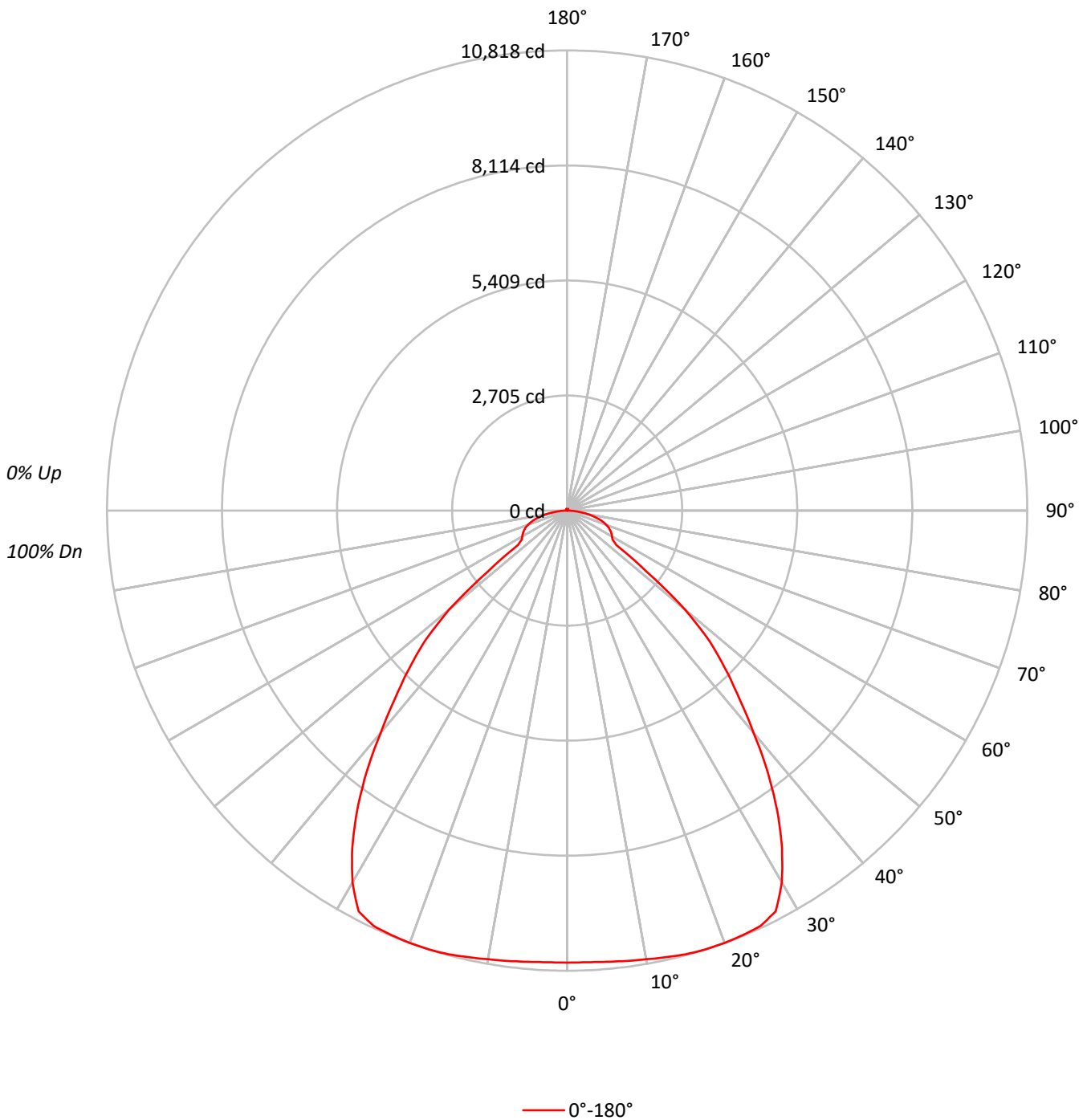
Lumens per Lamp: N/A
Luminaire Lumens: 22287.3 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 144.3
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	82	71	64	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49908
5°	47000
10°	44926
15°	43455
20°	42140
25°	40980
30°	37804
35°	31968
40°	25321
45°	19660
50°	13733
55°	5484
60°	4879
65°	4681
70°	4304
75°	3586
80°	2500
85°	1235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19660 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1018.4	4.6
10°-20°	3058.4	13.7
20°-30°	4927.4	22.1
30°-40°	5333.0	23.9
40°-50°	4032.3	18.1
50°-60°	1651.3	7.4
60°-70°	1105.0	5.0
70°-80°	800.5	3.6
80°-90°	254.6	1.1
90°-100°	7.1	0.0
100°-110°	9.2	0.0
110°-120°	11.8	0.1
120°-130°	14.3	0.1
130°-140°	18.4	0.1
140°-150°	22.6	0.1
150°-160°	16.5	0.1
160°-170°	5.0	0.0
170°-180°	1.6	0.0
0°-30°	9004.3	40.4
0°-40°	14337.3	64.3
0°-60°	20020.8	89.8
0°-90°	22180.9	99.5
90°-120°	28.0	0.1
90°-150°	83.3	0.4
90°-180°	106.0	0.5
0°-180°	22287.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10628	
5°	10648	###
15°	10798	3058
25°	10772	4927
35°	8608	5333
45°	5259	4032
55°	1412	1651
65°	1123	1105
75°	770	801
85°	226	241
90°	8	16
95°	6	5
105°	9	9
115°	12	12
125°	16	14
135°	24	18
145°	36	23
155°	36	17
165°	16	5
175°	17	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10627.6
2.5°	10626.0
5°	10647.5
7.5°	10677.6
10°	10711.0
12.5°	10755.4
15°	10797.5
17.5°	10818.2
20°	10815.0
22.5°	10801.5
25°	10772.1
27.5°	10619.7
30°	10096.4
32.5°	9400.9
35°	8607.7
37.5°	7746.2
40°	6821.2
42.5°	5984.3
45°	5258.6
47.5°	4532.1
50°	3619.0
52.5°	2357.4
55°	1412.5
57.5°	1263.2
60°	1218.0
62.5°	1175.9
65°	1122.7
67.5°	1060.0
70°	982.2
72.5°	885.3
75°	770.2
77.5°	637.6
80°	499.4
82.5°	362.1
85°	226.3
87.5°	93.7
90°	7.9
92.5°	5.6
95°	6.4
97.5°	6.4
100°	7.1
102.5°	7.9
105°	8.7
107.5°	9.5
110°	10.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	11.1
115°	11.9
117.5°	12.7
120°	13.5
122.5°	14.3
125°	15.9
127.5°	17.5
130°	19.1
132.5°	21.4
135°	23.8
137.5°	26.2
140°	29.4
142.5°	31.8
145°	35.7
147.5°	40.5
150°	44.5
152.5°	41.3
155°	36.5
157.5°	28.6
160°	23.0
162.5°	17.5
165°	15.9
167.5°	15.9
170°	15.9
172.5°	16.7
175°	16.7
177.5°	17.5
180°	18.3

(END OF REPORT)