

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: P735773

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

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L24_277V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

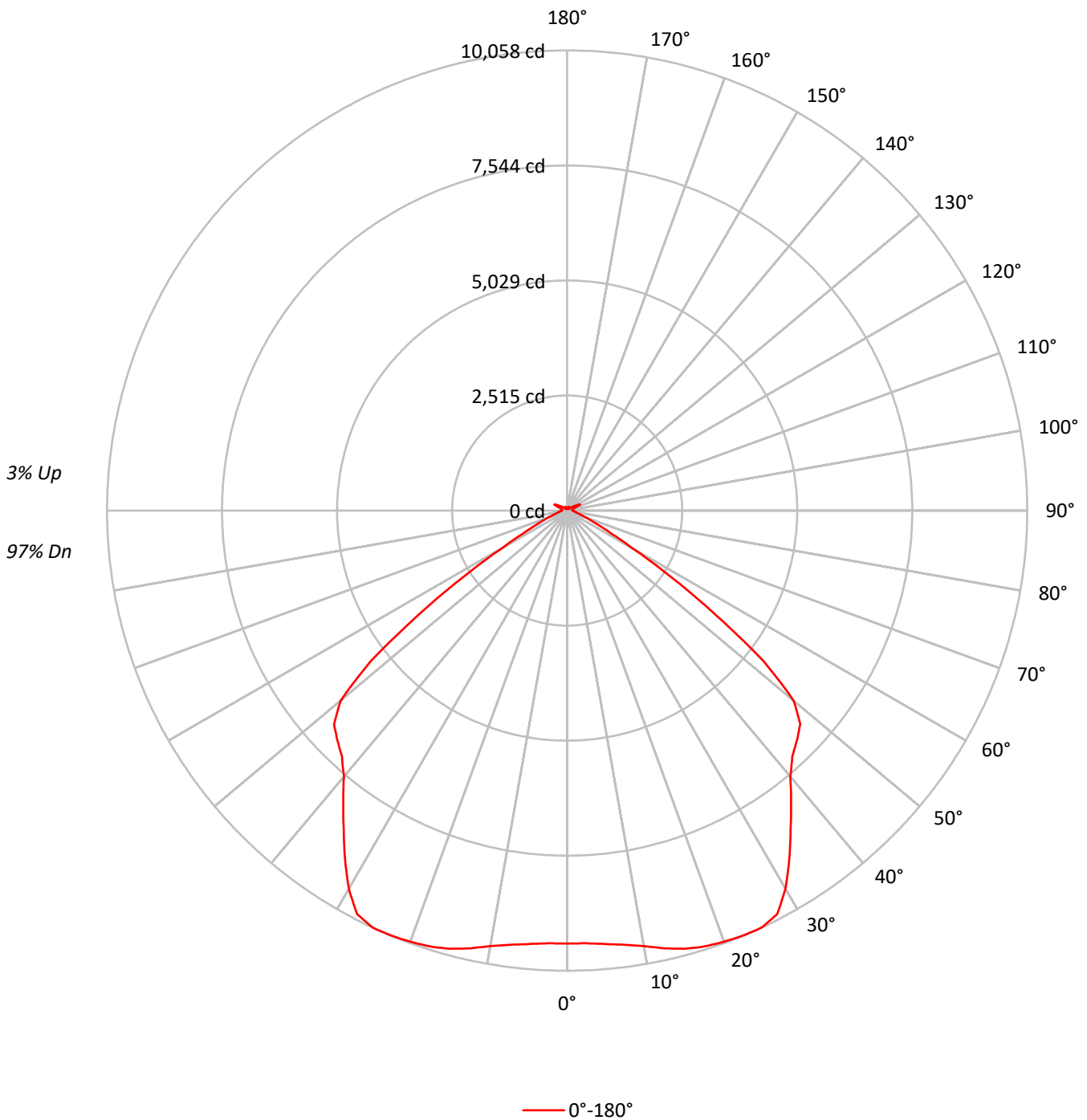
Lumens per Lamp: N/A
Luminaire Lumens: 24816.5 lumens
Efficiency: N/A
Efficacy: 172.0 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	110	106	103	100	107	104	101	98	99	97	94	95	93	91	91	89	88	86
2	102	95	90	85	99	93	88	84	89	85	81	86	82	79	82	79	77	75
3	94	85	78	73	92	84	77	72	80	75	70	77	73	69	74	71	67	65
4	87	77	69	63	85	75	68	63	72	66	61	70	65	60	67	63	59	57
5	81	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52	50
6	75	63	55	49	73	62	54	48	59	53	48	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	48	43	53	47	42	51	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	43	38	34	32
10	57	44	37	32	55	44	36	32	42	36	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44434
5°	41974
10°	40533
15°	39908
20°	39074
25°	38265
30°	35743
35°	31620
40°	28180
45°	26550
50°	24529
55°	15225
60°	6647
65°	3221
70°	1834
75°	1194
80°	938
85°	810

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26550 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.5	3.7
10°-20°	2808.2	11.3
20°-30°	4605.1	18.6
30°-40°	5340.8	21.5
40°-50°	5473.7	22.1
50°-60°	3555.4	14.3
60°-70°	854.8	3.4
70°-80°	288.8	1.2
80°-90°	163.8	0.7
90°-100°	121.8	0.5
100°-110°	139.9	0.6
110°-120°	258.1	1.0
120°-130°	140.1	0.6
130°-140°	47.7	0.2
140°-150°	43.5	0.2
150°-160°	41.6	0.2
160°-170°	17.2	0.1
170°-180°	3.5	0.0
0°-30°	8325.7	33.5
0°-40°	13666.6	55.1
0°-60°	22695.7	91.5
0°-90°	24003.1	96.7
90°-120°	519.8	2.1
90°-150°	751.1	3.0
90°-180°	813.0	3.3
0°-180°	24816.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9462	
5°	9509	912
15°	9916	2808
25°	10058	4605
35°	8514	5341
45°	7102	5474
55°	3922	3555
65°	773	855
75°	256	289
85°	148	129
90°	117	66
95°	109	91
105°	124	140
115°	311	258
125°	153	140
135°	55	48
145°	70	43
155°	92	42
165°	59	17
175°	35	4
180°	35	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9462.0
2.5°	9466.0
5°	9508.9
7.5°	9571.6
10°	9663.7
12.5°	9799.5
15°	9916.2
17.5°	9989.2
20°	10028.1
22.5°	10051.2
25°	10058.3
27.5°	9943.2
30°	9546.2
32.5°	9037.2
35°	8514.0
37.5°	8040.8
40°	7591.4
42.5°	7284.9
45°	7101.5
47.5°	6910.9
50°	6463.9
52.5°	5410.3
55°	3921.5
57.5°	2652.7
60°	1659.4
62.5°	1101.3
65°	772.6
67.5°	562.1
70°	418.4
72.5°	320.0
75°	256.5
77.5°	216.0
80°	187.4
82.5°	165.2
85°	148.5
87.5°	135.0
90°	116.7
92.5°	111.2
95°	108.8
97.5°	110.4
100°	115.9
102.5°	119.9
105°	123.9
107.5°	139.7
110°	176.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	243.8
115°	311.2
117.5°	286.6
120°	223.9
122.5°	185.8
125°	153.2
127.5°	122.3
130°	92.9
132.5°	69.9
135°	54.8
137.5°	48.4
140°	49.2
142.5°	57.2
145°	69.9
147.5°	82.6
150°	92.1
152.5°	94.5
155°	92.1
157.5°	85.8
160°	77.8
162.5°	68.3
165°	58.8
167.5°	49.2
170°	40.5
172.5°	36.5
175°	34.9
177.5°	34.9
180°	34.9

(END OF REPORT)