

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1221411

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (4000K_L24_Wide_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221411
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (4000K_L24_Wide_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

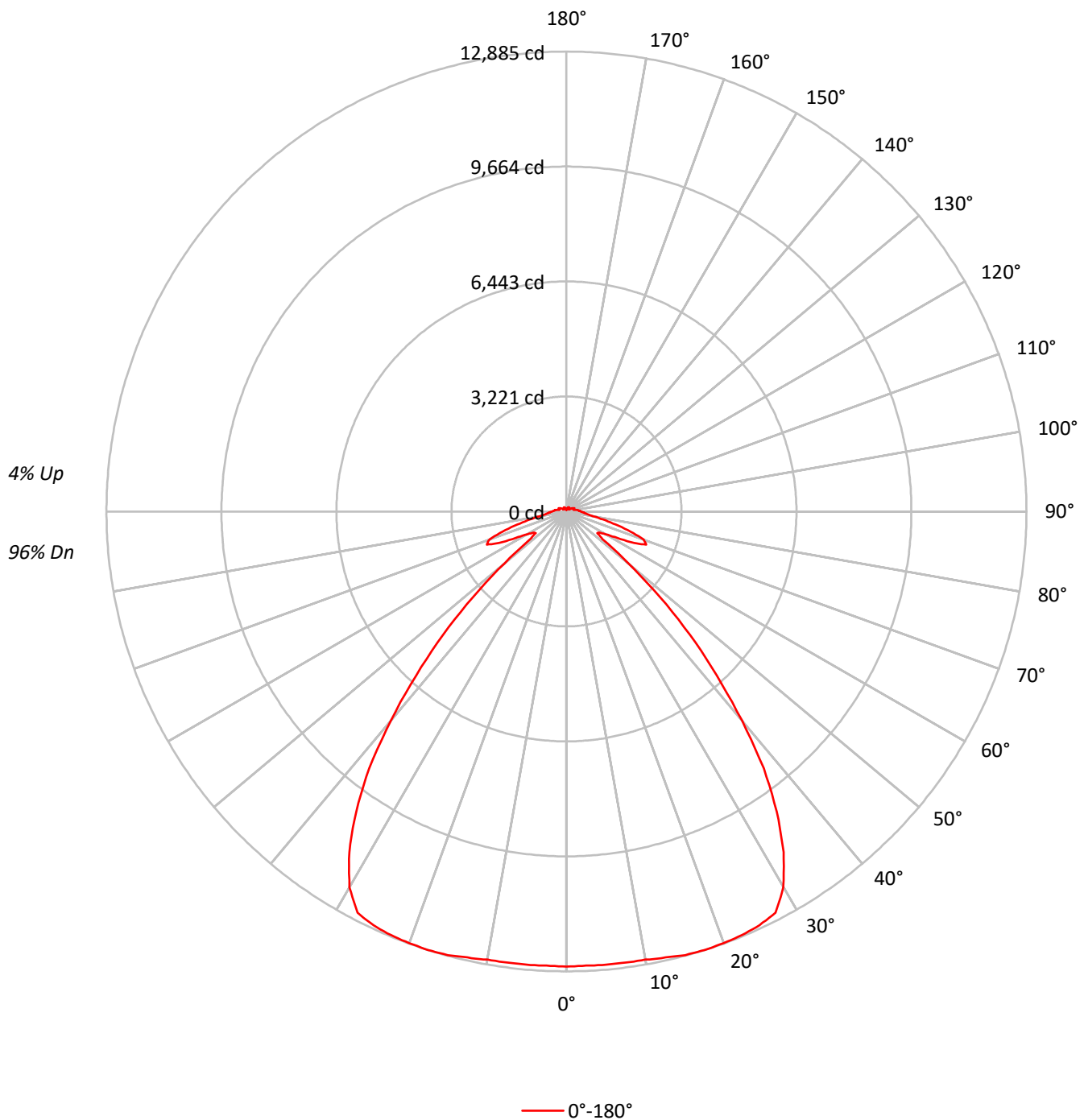
Lumens per Lamp: N/A
Luminaire Lumens: 27197.7 lumens
Efficiency: N/A
Efficacy: 175.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.21
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

Input Watts (W): 154.6
Input Voltage (V): 120
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	96
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	88	87	85	85	85	83
2	101	93	87	82	98	91	86	81	87	83	79	83	80	76	80	77	74	74	74	72
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	65	65	65	63
4	87	76	68	63	84	75	67	62	72	66	61	69	64	59	66	62	58	58	58	56
5	81	69	61	56	78	68	61	55	66	59	54	63	58	53	61	56	52	52	52	50
6	75	63	56	50	73	62	55	50	60	54	49	58	52	48	56	51	47	47	47	45
7	70	58	51	45	69	57	50	45	56	49	44	54	48	44	52	47	43	43	43	41
8	66	54	46	41	64	53	46	41	51	45	40	50	44	40	49	43	39	39	39	38
9	62	50	43	37	61	49	42	37	48	41	37	46	41	37	45	40	36	36	36	34
10	58	46	39	34	57	46	39	34	45	38	34	43	38	34	42	37	33	33	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73532
5°	70205
10°	67684
15°	66396
20°	65102
25°	63938
30°	60500
35°	51276
40°	38578
45°	25158
50°	11920
55°	5740
60°	7290
65°	12675
70°	14849
75°	9957
80°	5865
85°	4348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 25158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.8	4.5
10°-20°	3641.9	13.4
20°-30°	5874.1	21.6
30°-40°	6316.1	23.2
40°-50°	3741.7	13.8
50°-60°	1158.5	4.3
60°-70°	1966.6	7.2
70°-80°	1548.0	5.7
80°-90°	581.2	2.1
90°-100°	366.5	1.3
100°-110°	227.8	0.8
110°-120°	215.8	0.8
120°-130°	104.5	0.4
130°-140°	72.5	0.3
140°-150°	80.7	0.3
150°-160°	56.2	0.2
160°-170°	24.0	0.1
170°-180°	5.0	0.0
0°-30°	10732.8	39.5
0°-40°	17049.0	62.7
0°-60°	21949.1	80.7
0°-90°	26044.8	95.8
90°-120°	810.1	3.0
90°-150°	1067.8	3.9
90°-180°	1153.0	4.2
0°-180°	27197.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12752	
5°	12749	###
15°	12866	3642
25°	12791	5874
35°	10268	6316
45°	4890	3742
55°	1048	1158
65°	2094	1967
75°	1423	1548
85°	505	464
90°	401	223
95°	335	262
105°	193	228
115°	230	216
125°	110	104
135°	90	72
145°	131	81
155°	123	56
165°	82	24
175°	50	5
180°	49	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12751.9
2.5°	12735.9
5°	12749.4
7.5°	12747.7
10°	12751.9
12.5°	12802.4
15°	12865.5
17.5°	12884.9
20°	12868.1
22.5°	12847.9
25°	12790.6
27.5°	12678.7
30°	12155.1
32.5°	11320.9
35°	10267.9
37.5°	9081.0
40°	7640.7
42.5°	6228.2
45°	4889.8
47.5°	3553.1
50°	2255.1
52.5°	1272.7
55°	1048.0
57.5°	1108.6
60°	1272.7
62.5°	1594.3
65°	2094.3
67.5°	2419.2
70°	2296.3
72.5°	1886.4
75°	1422.6
77.5°	1037.9
80°	762.6
82.5°	588.4
85°	505.1
87.5°	457.1
90°	400.7
92.5°	365.3
95°	335.0
97.5°	307.2
100°	270.2
102.5°	223.9
105°	192.8
107.5°	196.1
110°	225.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	242.4
115°	229.8
117.5°	199.5
120°	166.7
122.5°	135.5
125°	110.3
127.5°	92.6
130°	81.7
132.5°	80.8
135°	90.1
137.5°	105.2
140°	119.5
142.5°	128.8
145°	131.3
147.5°	130.5
150°	127.9
152.5°	126.3
155°	122.9
157.5°	117.0
160°	106.1
162.5°	95.1
165°	81.7
167.5°	69.0
170°	58.1
172.5°	52.2
175°	49.7
177.5°	48.8
180°	48.8

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.50	14.80	13.93	15.20	15.63	13.50	14.80	13.93	15.20	15.63
	3H	20.44	21.61	20.89	22.03	22.50	20.44	21.61	20.89	22.03	22.50
	4H	21.45	22.55	21.92	22.99	23.48	21.45	22.55	21.92	22.99	23.48
	6H	21.86	22.88	22.34	23.33	23.83	21.86	22.88	22.34	23.33	23.83
	8H	21.96	22.93	22.46	23.41	23.91	21.96	22.93	22.46	23.41	23.91
	12H	22.04	22.97	22.55	23.44	23.97	22.04	22.97	22.55	23.44	23.97
4H	2H	16.04	17.14	16.51	17.58	18.07	16.04	17.14	16.51	17.58	18.07
	3H	21.62	22.55	22.11	23.04	23.54	21.62	22.55	22.11	23.04	23.54
	4H	22.61	23.45	23.11	23.95	24.49	22.61	23.45	23.11	23.95	24.49
	6H	23.06	23.80	23.59	24.32	24.88	23.06	23.80	23.59	24.32	24.88
	8H	23.18	23.87	23.72	24.39	24.96	23.18	23.87	23.72	24.39	24.96
	12H	23.29	23.90	23.84	24.46	25.03	23.29	23.90	23.84	24.46	25.03
8H	4H	22.88	23.57	23.42	24.09	24.66	22.88	23.57	23.42	24.09	24.66
	6H	23.40	23.97	23.97	24.54	25.11	23.40	23.97	23.97	24.54	25.11
	8H	23.57	24.07	24.15	24.66	25.25	23.57	24.07	24.15	24.66	25.25
	12H	23.74	24.19	24.32	24.76	25.42	23.74	24.19	24.32	24.76	25.42
12H	4H	22.88	23.49	23.43	24.04	24.61	22.88	23.49	23.43	24.04	24.61
	6H	23.41	23.92	23.99	24.50	25.09	23.41	23.92	23.99	24.50	25.09
	8H	23.62	24.07	24.20	24.63	25.29	23.62	24.07	24.20	24.63	25.29

END OF REPORT