

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: PORTFOLIO

Report Number: P742620

Luminaire Tested: LD4D10D010-EU4DR600210IC9040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P742620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR600210IC9040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 856.2 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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

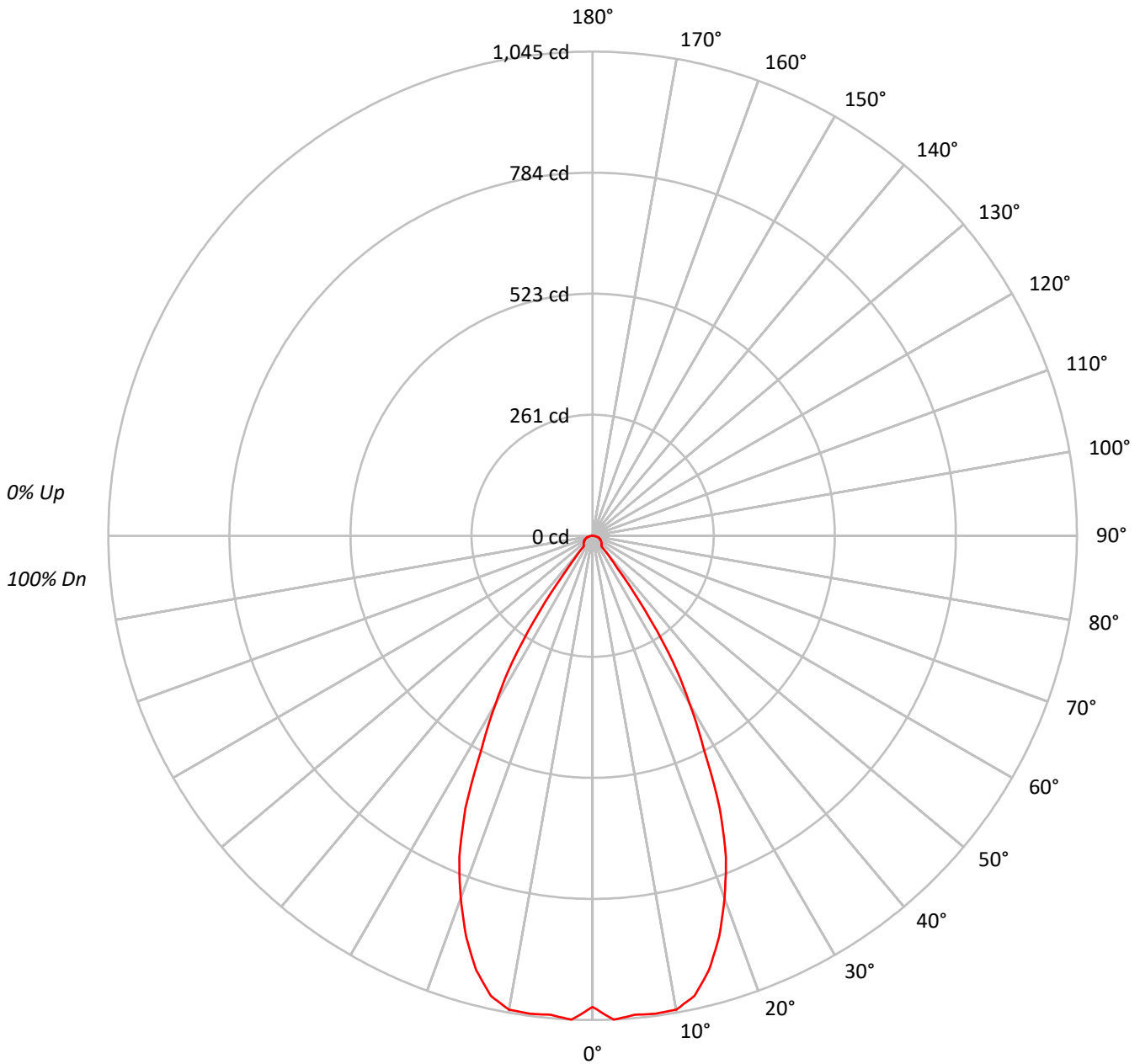


Downlight



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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	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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111096
5°	113824
10°	115207
15°	109744
20°	96762
25°	78265
30°	52938
35°	26530
40°	4307
45°	4218
50°	4300
55°	4362
60°	4480
65°	4576
70°	4696
75°	4728
80°	4593
85°	3761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 4728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	11.6
10°-20°	268.4	31.3
20°-30°	288.8	33.7
30°-40°	125.5	14.7
40°-50°	21.1	2.5
50°-60°	20.5	2.4
60°-70°	17.5	2.0
70°-80°	11.7	1.4
80°-90°	3.5	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	656.3	76.7
0°-40°	781.8	91.3
0°-60°	823.4	96.2
0°-90°	856.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	856.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1017	
5°	1038	99
15°	970	268
25°	649	289
35°	199	126
45°	27	21
55°	23	21
65°	18	18
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1016.8
2.5°	1045.4
5°	1037.8
7.5°	1040.2
10°	1038.4
12.5°	1016.9
15°	970.2
17.5°	907.5
20°	832.2
22.5°	751.7
25°	649.2
27.5°	519.3
30°	419.6
32.5°	323.4
35°	198.9
37.5°	85.1
40°	30.2
42.5°	27.8
45°	27.3
47.5°	26.4
50°	25.3
52.5°	24.1
55°	22.9
57.5°	21.7
60°	20.5
62.5°	19.2
65°	17.7
67.5°	16.3
70°	14.7
72.5°	12.9
75°	11.2
77.5°	9.3
80°	7.3
82.5°	5.2
85°	3.0
87.5°	1.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)