

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: P747307

Luminaire Tested: LD4D35BD010-EU4DR6520359027-4LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D35BD010-EU4DR6520359027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2024.6 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

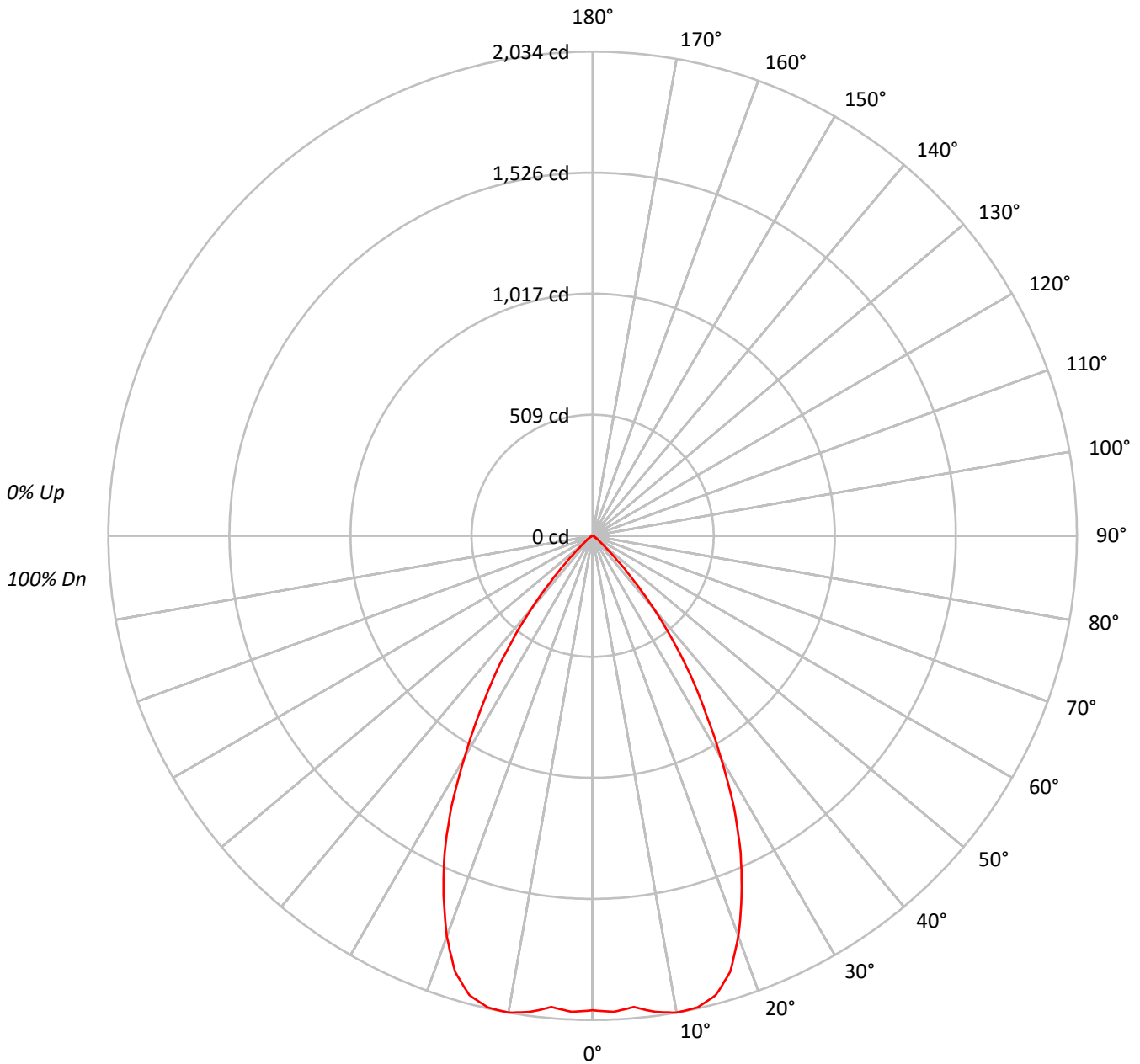
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82	79	76	75
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73	69	66	65
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59	54	51	50

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	217800
5°	217985
10°	225654
15°	226027
20°	208094
25°	177314
30°	135739
35°	95902
40°	56610
45°	22977
50°	8329
55°	4648
60°	2666
65°	1474
70°	1533
75°	1182
80°	1258
85°	1003

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22977 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	9.5
10°-20°	553.7	27.3
20°-30°	664.3	32.8
30°-40°	446.4	22.1
40°-50°	133.7	6.6
50°-60°	23.6	1.2
60°-70°	6.7	0.3
70°-80°	3.3	0.2
80°-90°	1.0	0.1
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°	1409.9	69.6
0°-40°	1856.4	91.7
0°-60°	2013.6	99.5
0°-90°	2024.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1993	
5°	1988	192
15°	1998	554
25°	1471	664
35°	719	446
45°	149	134
55°	24	24
65°	6	7
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1993.4
2.5°	2001.9
5°	1987.5
7.5°	2017.5
10°	2033.9
12.5°	2029.9
15°	1998.2
17.5°	1920.6
20°	1789.7
22.5°	1635.6
25°	1470.8
27.5°	1284.6
30°	1075.9
32.5°	886.6
35°	719.0
37.5°	553.2
40°	396.9
42.5°	259.2
45°	148.7
47.5°	78.8
50°	49.0
52.5°	34.0
55°	24.4
57.5°	17.6
60°	12.2
62.5°	7.9
65°	5.7
67.5°	5.1
70°	4.8
72.5°	3.7
75°	2.8
77.5°	2.5
80°	2.0
82.5°	1.4
85°	0.8
87.5°	0.6
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)