

Signify Classified - Internal  
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: PORTFOLIO

Report Number: P746020

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D30D010-EU4DR3020359040-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2284.2 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
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

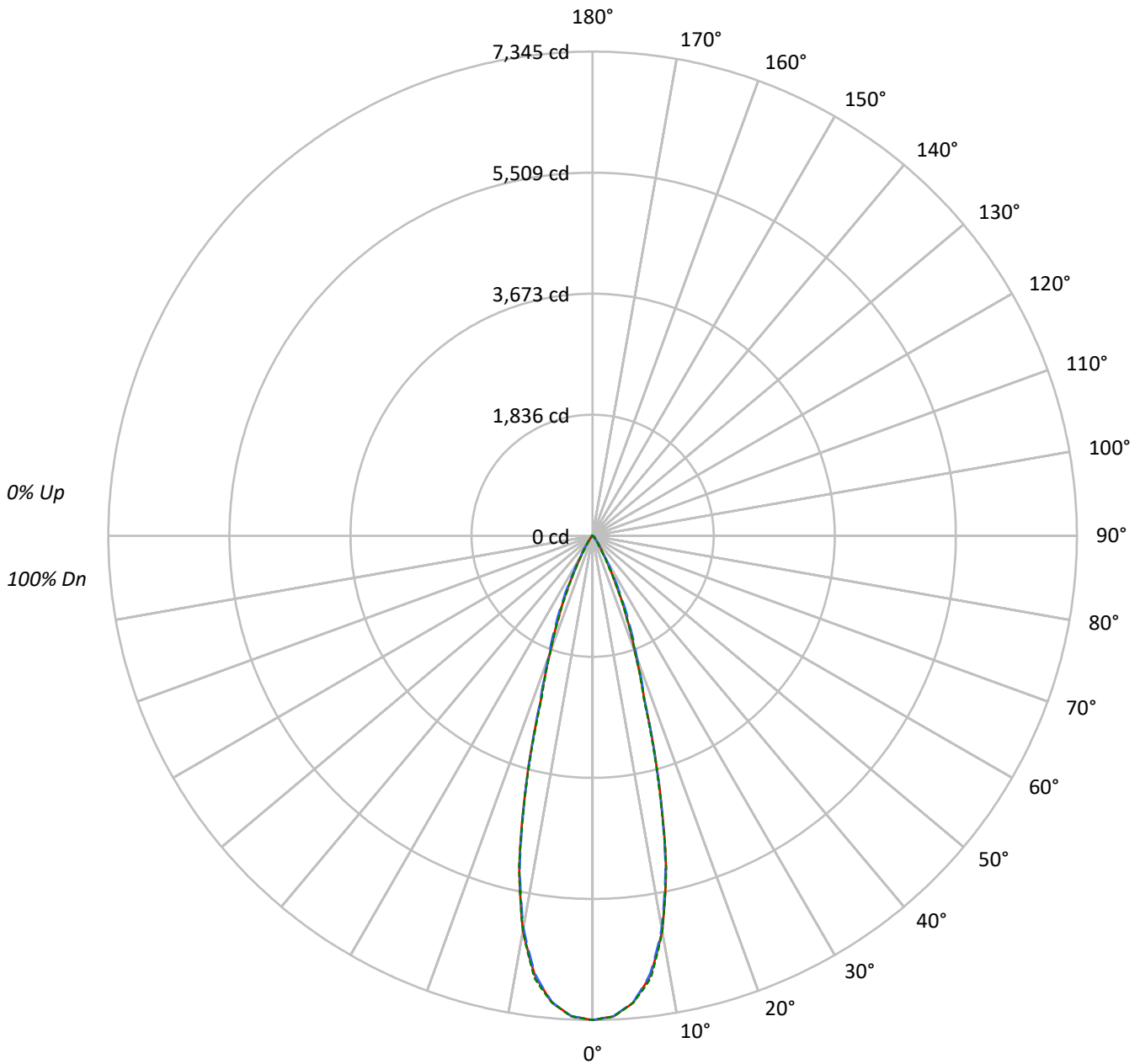


Downlight



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	562211	562211	562211
5°	546072	545434	546103
10°	472983	469648	472866
15°	308598	306942	305397
20°	153455	159213	153243
25°	77294	87167	75715
30°	30943	33719	26966
35°	14353	13745	11531
40°	6205	6885	5835
45°	4373	5423	4406
50°	1500	3953	1584
55°	867	1641	921
60°	612	720	612
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5423 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.9	28.3
10°-20°	1040.2	45.5
20°-30°	449.5	19.7
30°-40°	102.4	4.5
40°-50°	35.2	1.5
50°-60°	8.6	0.4
60°-70°	2.2	0.1
70°-80°	0.2	0.0
80°-90°	0.0	0.0
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°	2135.6	93.5
0°-40°	2238.0	98.0
0°-60°	2281.8	99.9
0°-90°	2284.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7345	7345	7345	7345	7345	
5°	7107	7100	7099	7114	7107	646
15°	3894	3847	3873	3861	3854	1043
25°	915	950	1032	926	896	438
35°	154	157	147	146	123	104
45°	40	50	50	50	41	29
55°	6	7	12	7	7	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7345.0	7345.0	7345.0	7345.0	7345.0
2.5°	7296.4	7291.3	7294.2	7297.8	7299.2
5°	7107.0	7100.2	7098.7	7113.5	7107.4
7.5°	6725.1	6715.4	6700.6	6734.1	6765.5
10°	6085.4	6074.6	6042.5	6058.3	6083.9
12.5°	5140.9	5106.0	5105.2	5155.7	5148.9
15°	3894.3	3847.4	3873.4	3860.8	3853.9
17.5°	2618.8	2600.7	2635.4	2624.9	2579.8
20°	1883.9	1888.6	1954.6	1921.3	1881.3
22.5°	1374.7	1391.6	1469.8	1384.4	1353.0
25°	915.2	949.8	1032.1	925.7	896.5
27.5°	562.9	578.8	662.1	555.7	539.8
30°	350.1	342.2	381.5	327.4	305.1
32.5°	229.7	219.6	232.2	208.4	190.4
35°	153.6	156.9	147.1	146.0	123.4
37.5°	95.9	110.4	97.3	103.9	79.4
40°	62.1	80.0	68.9	76.1	58.4
42.5°	50.8	61.6	56.6	60.2	51.9
45°	40.4	50.1	50.1	50.1	40.7
47.5°	22.3	33.5	42.9	34.3	23.8
50°	12.6	17.0	33.2	17.6	13.3
52.5°	8.7	9.7	22.7	10.1	9.0
55°	6.5	6.9	12.3	7.2	6.9
57.5°	5.0	5.4	6.5	5.4	5.0
60°	4.0	4.0	4.7	4.4	4.0
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)