

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: P753772

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753772  
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: LD4D80BD010-EU4DR3070959024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6285.1 lumens  
Efficiency: N/A  
Efficacy: 79.7 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): 78.9  
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

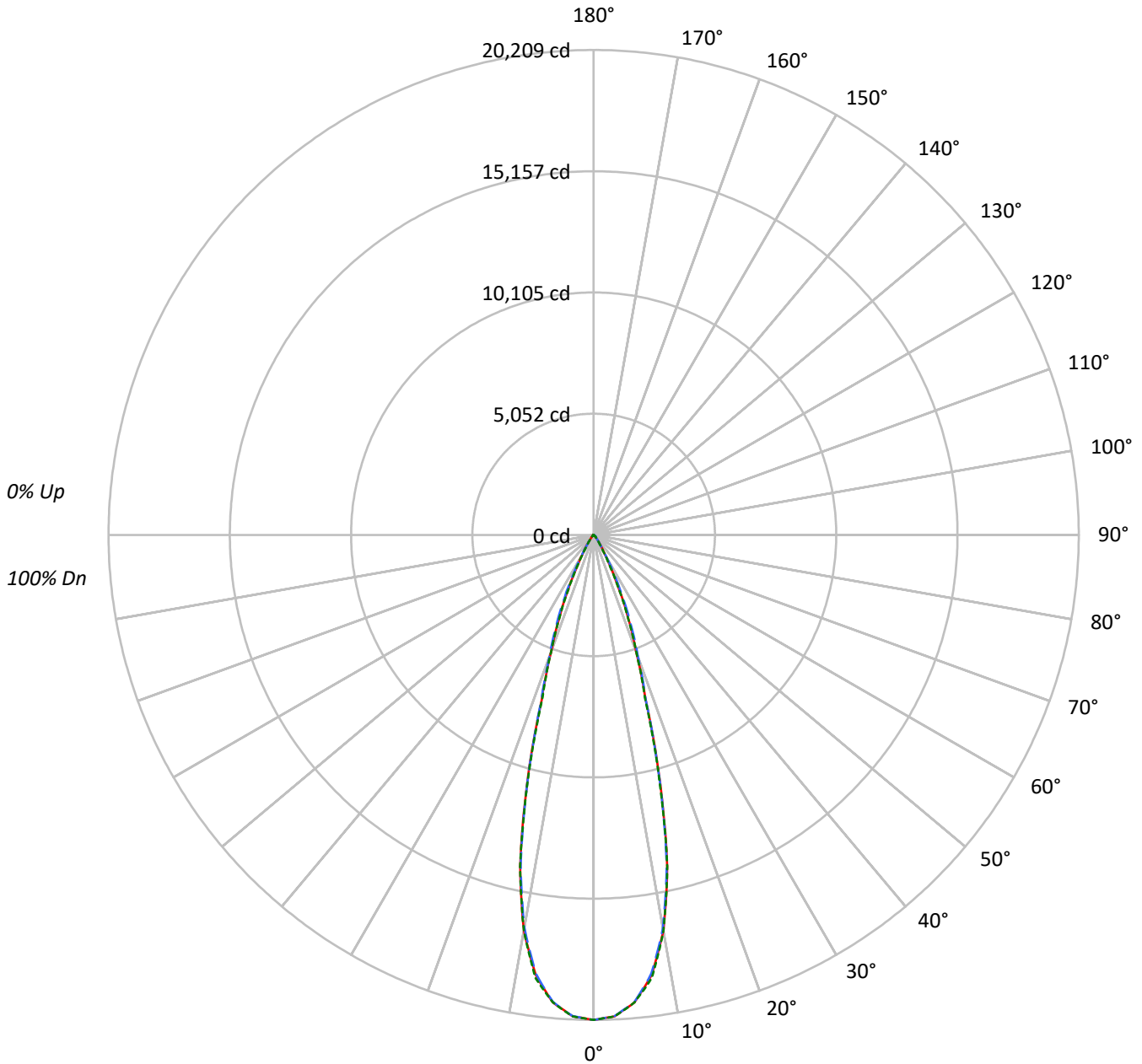


Downlight

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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	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°	1546896	1546896	1546896
5°	1502493	1500741	1502570
10°	1301383	1292211	1301080
15°	849087	844530	840283
20°	422210	438053	421648
25°	212678	239831	208320
30°	85150	92786	74190
35°	39498	37825	31705
40°	17056	18935	16057
45°	12026	14927	12135
50°	4132	10872	4370
55°	2389	4497	2522
60°	1669	1975	1669
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14927 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1777.1	28.3
10°-20°	2862.1	45.5
20°-30°	1236.8	19.7
30°-40°	281.9	4.5
40°-50°	96.8	1.5
50°-60°	23.6	0.4
60°-70°	6.1	0.1
70°-80°	0.7	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°	5875.9	93.5
0°-40°	6157.8	98.0
0°-60°	6278.3	99.9
0°-90°	6285.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6285.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20209	20209	20209	20209	20209	
5°	19555	19536	19532	19572	19556	1779
15°	10715	10586	10657	10623	10604	2869
25°	2518	2614	2840	2547	2467	1205
35°	423	432	405	402	339	287
45°	111	138	138	138	112	79
55°	18	19	34	20	19	17
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
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°	20209.4	20209.4	20209.4	20209.4	20209.4
2.5°	20075.5	20061.6	20069.5	20079.5	20083.4
5°	19554.6	19535.7	19531.8	19572.4	19555.6
7.5°	18503.8	18477.0	18436.4	18528.6	18615.0
10°	16743.6	16713.9	16625.6	16669.2	16739.7
12.5°	14145.0	14048.8	14046.8	14185.7	14166.9
15°	10714.9	10585.9	10657.4	10622.7	10603.8
17.5°	7205.5	7155.9	7251.1	7222.3	7098.3
20°	5183.3	5196.2	5377.8	5286.5	5176.4
22.5°	3782.3	3829.0	4044.3	3809.1	3722.8
25°	2518.2	2613.5	2839.7	2547.0	2466.6
27.5°	1548.8	1592.5	1821.7	1529.0	1485.3
30°	963.4	941.6	1049.8	900.9	839.4
32.5°	632.0	604.3	639.0	573.5	523.9
35°	422.7	431.6	404.8	401.8	339.3
37.5°	263.9	303.6	267.9	285.8	218.3
40°	170.7	220.3	189.5	209.4	160.7
42.5°	139.9	169.7	155.8	165.7	142.9
45°	111.1	137.9	137.9	137.9	112.1
47.5°	61.5	92.3	118.1	94.3	65.5
50°	34.7	46.6	91.3	48.6	36.7
52.5°	23.8	26.8	62.5	27.8	24.8
55°	17.9	18.9	33.7	19.8	18.9
57.5°	13.9	14.9	17.9	14.9	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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



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Scaled Data Report







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

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(END OF REPORT)