

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: P753833

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753833  
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-EU4DR3070959050-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6374.3 lumens  
Efficiency: N/A  
Efficacy: 80.8 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): 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

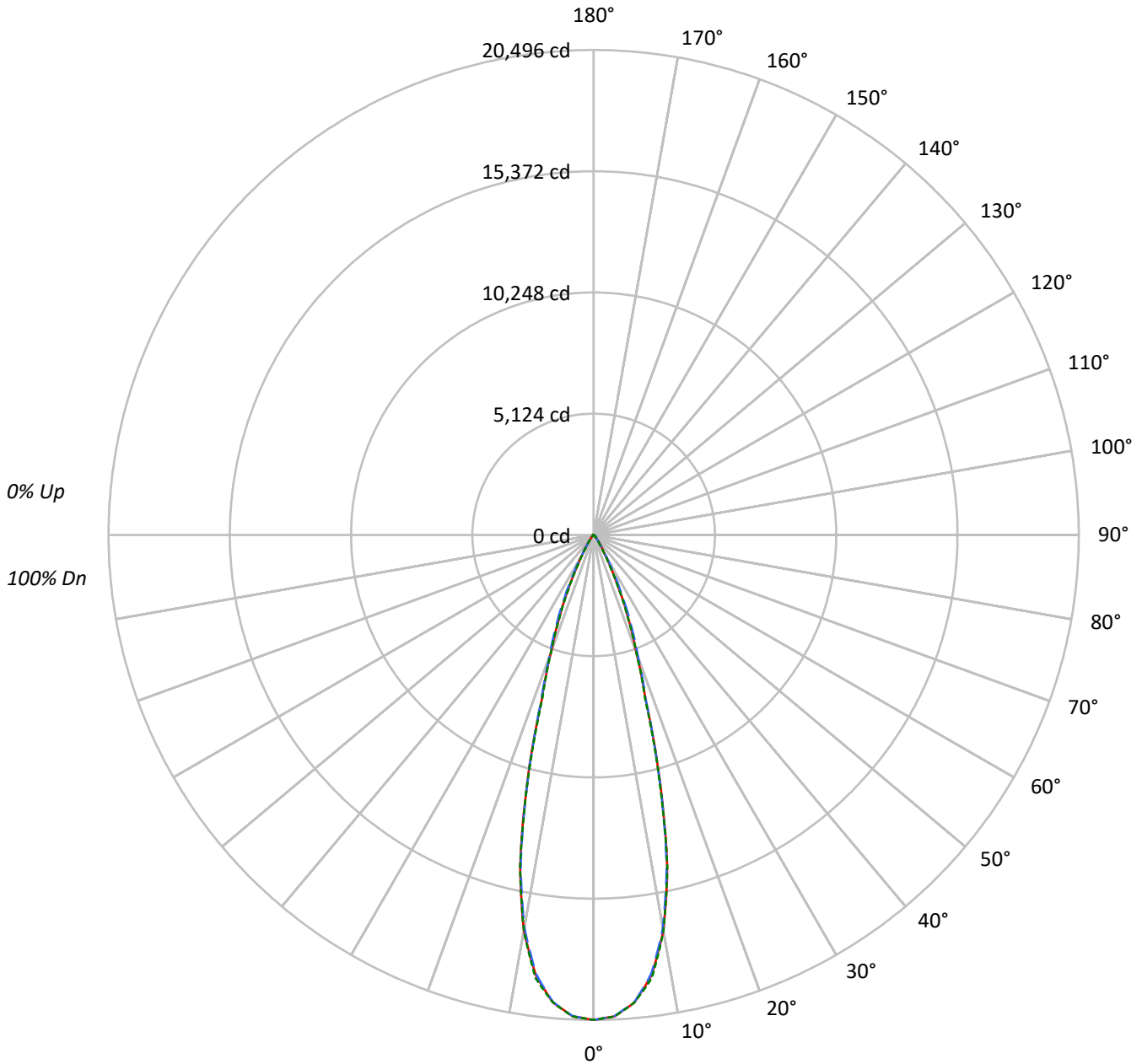


Downlight

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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	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°	1568864	1568864	1568864
5°	1523823	1522048	1523899
10°	1319866	1310554	1319547
15°	861148	856520	852217
20°	428205	444276	427635
25°	215701	243234	211284
30°	86361	94103	75242
35°	40059	38367	32163
40°	17296	19205	16287
45°	12200	15144	12308
50°	4192	11027	4430
55°	2415	4564	2549
60°	1699	2005	1699
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: 15144 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1802.3	28.3
10°-20°	2902.7	45.5
20°-30°	1254.3	19.7
30°-40°	285.9	4.5
40°-50°	98.2	1.5
50°-60°	24.0	0.4
60°-70°	6.2	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°	5959.4	93.5
0°-40°	6245.3	98.0
0°-60°	6367.4	99.9
0°-90°	6374.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6374.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20496	20496	20496	20496	20496	
5°	19832	19813	19809	19850	19833	1804
15°	10867	10736	10809	10774	10754	2910
25°	2554	2651	2880	2583	2502	1223
35°	429	438	411	408	344	291
45°	113	140	140	140	114	80
55°	18	19	34	20	19	18
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°	20496.4	20496.4	20496.4	20496.4	20496.4
2.5°	20360.5	20346.4	20354.5	20364.6	20368.6
5°	19832.2	19813.1	19809.1	19850.3	19833.2
7.5°	18766.5	18739.4	18698.1	18791.7	18879.3
10°	16981.4	16951.2	16861.6	16905.9	16977.3
12.5°	14345.9	14248.2	14246.2	14387.1	14368.0
15°	10867.1	10736.2	10808.7	10773.5	10754.4
17.5°	7307.8	7257.5	7354.1	7324.9	7199.1
20°	5256.9	5270.0	5454.2	5361.6	5249.9
22.5°	3836.0	3883.3	4101.7	3863.2	3775.6
25°	2554.0	2650.6	2880.0	2583.2	2501.7
27.5°	1570.8	1615.1	1847.6	1550.7	1506.4
30°	977.1	955.0	1064.7	913.7	851.3
32.5°	641.0	612.8	648.1	581.6	531.3
35°	428.7	437.7	410.6	407.6	344.2
37.5°	267.7	307.9	271.7	289.8	221.4
40°	173.1	223.4	192.2	212.3	163.0
42.5°	141.9	172.1	158.0	168.1	144.9
45°	112.7	139.9	139.9	139.9	113.7
47.5°	62.4	93.6	119.8	95.6	66.4
50°	35.2	47.3	92.6	49.3	37.2
52.5°	24.2	27.2	63.4	28.2	25.2
55°	18.1	19.1	34.2	20.1	19.1
57.5°	14.1	15.1	18.1	15.1	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
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)