

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: P754561

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754561  
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: LD4D85BD010-EU4DR3070959027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6182.9 lumens  
Efficiency: N/A  
Efficacy: 70.5 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

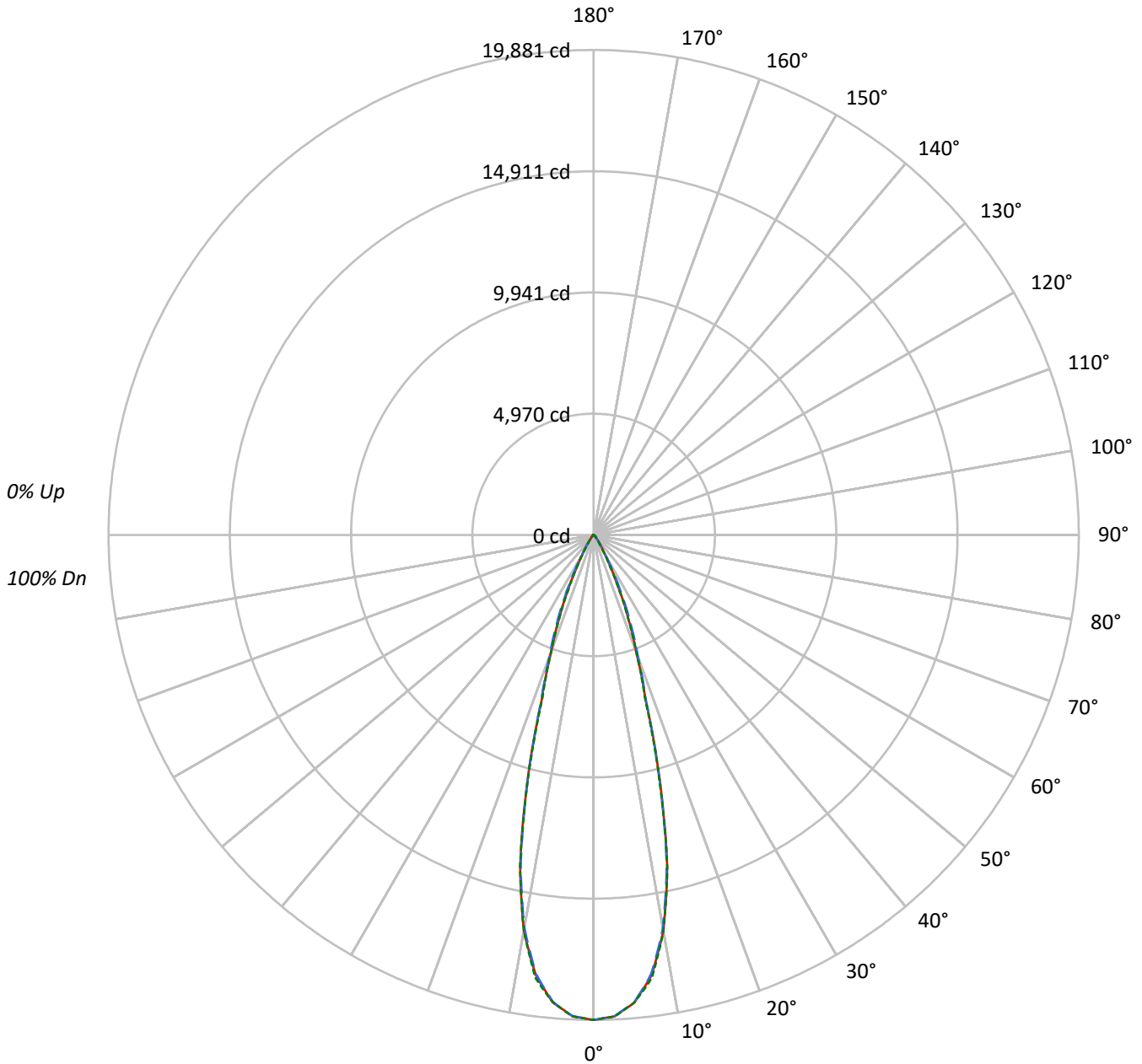
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1521752	1521752	1521752
5°	1478067	1476346	1478144
10°	1280234	1271203	1279931
15°	835290	830805	826621
20°	415351	430934	414789
25°	209224	235937	204942
30°	83771	91275	72988
35°	38853	37209	31191
40°	16777	18625	15797
45°	11832	14689	11940
50°	4073	10693	4299
55°	2349	4431	2469
60°	1638	1944	1638
65°	1069	1069	1069
70°	649	448	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14689 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1748.2	28.3
10°-20°	2815.5	45.5
20°-30°	1216.7	19.7
30°-40°	277.3	4.5
40°-50°	95.2	1.5
50°-60°	23.3	0.4
60°-70°	6.0	0.1
70°-80°	0.6	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°	5780.4	93.5
0°-40°	6057.7	98.0
0°-60°	6176.2	99.9
0°-90°	6182.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6182.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19881	19881	19881	19881	19881	
5°	19237	19218	19214	19254	19238	1750
15°	10541	10414	10484	10450	10431	2822
25°	2477	2571	2794	2506	2427	1186
35°	416	425	398	395	334	282
45°	109	136	136	136	110	78
55°	18	18	33	20	18	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°	19880.9	19880.9	19880.9	19880.9	19880.9
2.5°	19749.2	19735.5	19743.3	19753.1	19757.0
5°	19236.7	19218.2	19214.3	19254.3	19237.7
7.5°	18203.0	18176.7	18136.7	18227.4	18312.4
10°	16471.5	16442.2	16355.3	16398.3	16467.6
12.5°	13915.1	13820.4	13818.5	13955.1	13936.6
15°	10540.8	10413.9	10484.2	10450.0	10431.4
17.5°	7088.3	7039.5	7133.2	7104.9	6982.9
20°	5099.1	5111.8	5290.4	5200.6	5092.2
22.5°	3720.8	3766.7	3978.5	3747.2	3662.3
25°	2477.3	2571.0	2793.6	2505.6	2426.6
27.5°	1523.7	1566.6	1792.1	1504.2	1461.2
30°	947.8	926.3	1032.7	886.3	825.8
32.5°	621.8	594.4	628.6	564.2	515.4
35°	415.8	424.6	398.2	395.3	333.8
37.5°	259.6	298.7	263.5	281.1	214.7
40°	167.9	216.7	186.4	206.0	158.1
42.5°	137.6	166.9	153.2	163.0	140.6
45°	109.3	135.7	135.7	135.7	110.3
47.5°	60.5	90.8	116.2	92.7	64.4
50°	34.2	45.9	89.8	47.8	36.1
52.5°	23.4	26.4	61.5	27.3	24.4
55°	17.6	18.5	33.2	19.5	18.5
57.5°	13.7	14.6	17.6	14.6	13.7
60°	10.7	10.7	12.7	11.7	10.7
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
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)