

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: P754592

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754592  
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-EU4DR3070959035-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8415.9 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

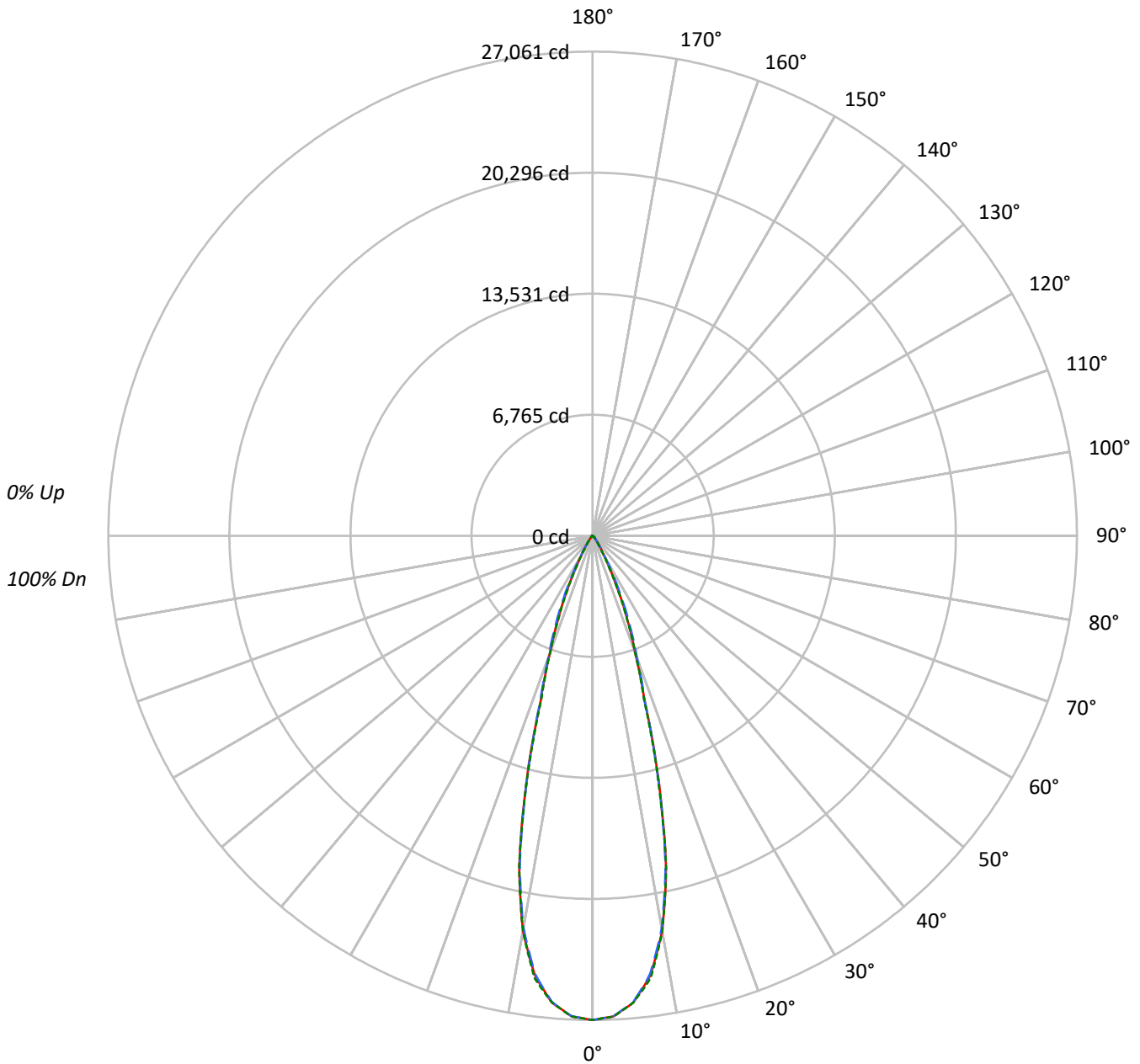


Downlight

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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	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°	2071364	2071364	2071364
5°	2011899	2009548	2011999
10°	1742608	1730319	1742196
15°	1136963	1130861	1125171
20°	565360	586571	564603
25°	284787	321145	278951
30°	114025	124242	99344
35°	52888	50655	42460
40°	22832	25360	21503
45°	16107	19994	16248
50°	5537	14552	5859
55°	3189	6032	3363
60°	2235	2648	2235
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 19994 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2379.6	28.3
10°-20°	3832.4	45.5
20°-30°	1656.1	19.7
30°-40°	377.5	4.5
40°-50°	129.6	1.5
50°-60°	31.7	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7868.1	93.5
0°-40°	8245.6	98.0
0°-60°	8406.8	99.9
0°-90°	8415.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8415.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27061	27061	27061	27061	27061	
5°	26184	26159	26154	26208	26186	2382
15°	14348	14175	14271	14224	14199	3842
25°	3372	3500	3802	3411	3303	1614
35°	566	578	542	538	454	384
45°	149	185	185	185	150	106
55°	24	25	45	27	25	23
65°	8	8	8	8	8	8
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°	27061.3	27061.3	27061.3	27061.3	27061.3
2.5°	26881.9	26863.3	26873.9	26887.2	26892.5
5°	26184.4	26159.1	26153.8	26208.3	26185.7
7.5°	24777.4	24741.5	24687.0	24810.6	24926.2
10°	22420.4	22380.5	22262.3	22320.7	22415.1
12.5°	18940.7	18811.9	18809.2	18995.2	18970.0
15°	14347.7	14175.0	14270.7	14224.2	14198.9
17.5°	9648.4	9582.0	9709.5	9671.0	9504.9
20°	6940.7	6958.0	7201.1	7078.9	6931.4
22.5°	5064.7	5127.1	5415.4	5100.6	4985.0
25°	3372.0	3499.6	3802.5	3410.6	3302.9
27.5°	2074.0	2132.4	2439.3	2047.4	1988.9
30°	1290.1	1260.9	1405.7	1206.4	1124.0
32.5°	846.3	809.1	855.6	767.9	701.5
35°	566.0	577.9	542.1	538.1	454.4
37.5°	353.4	406.6	358.7	382.6	292.3
40°	228.5	295.0	253.8	280.3	215.2
42.5°	187.3	227.2	208.6	221.9	191.3
45°	148.8	184.7	184.7	184.7	150.1
47.5°	82.4	123.6	158.1	126.2	87.7
50°	46.5	62.4	122.2	65.1	49.2
52.5°	31.9	35.9	83.7	37.2	33.2
55°	23.9	25.2	45.2	26.6	25.2
57.5°	18.6	19.9	23.9	19.9	18.6
60°	14.6	14.6	17.3	15.9	14.6
62.5°	10.6	10.6	12.0	10.6	10.6
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)