

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: P740088

Luminaire Tested: LD4D05D010-EU4DR300210IC9027-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740088  
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: LD4D05D010-EU4DR300210IC9027-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 536.1 lumens  
Efficiency: N/A  
Efficacy: 71.5 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): 7.5  
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



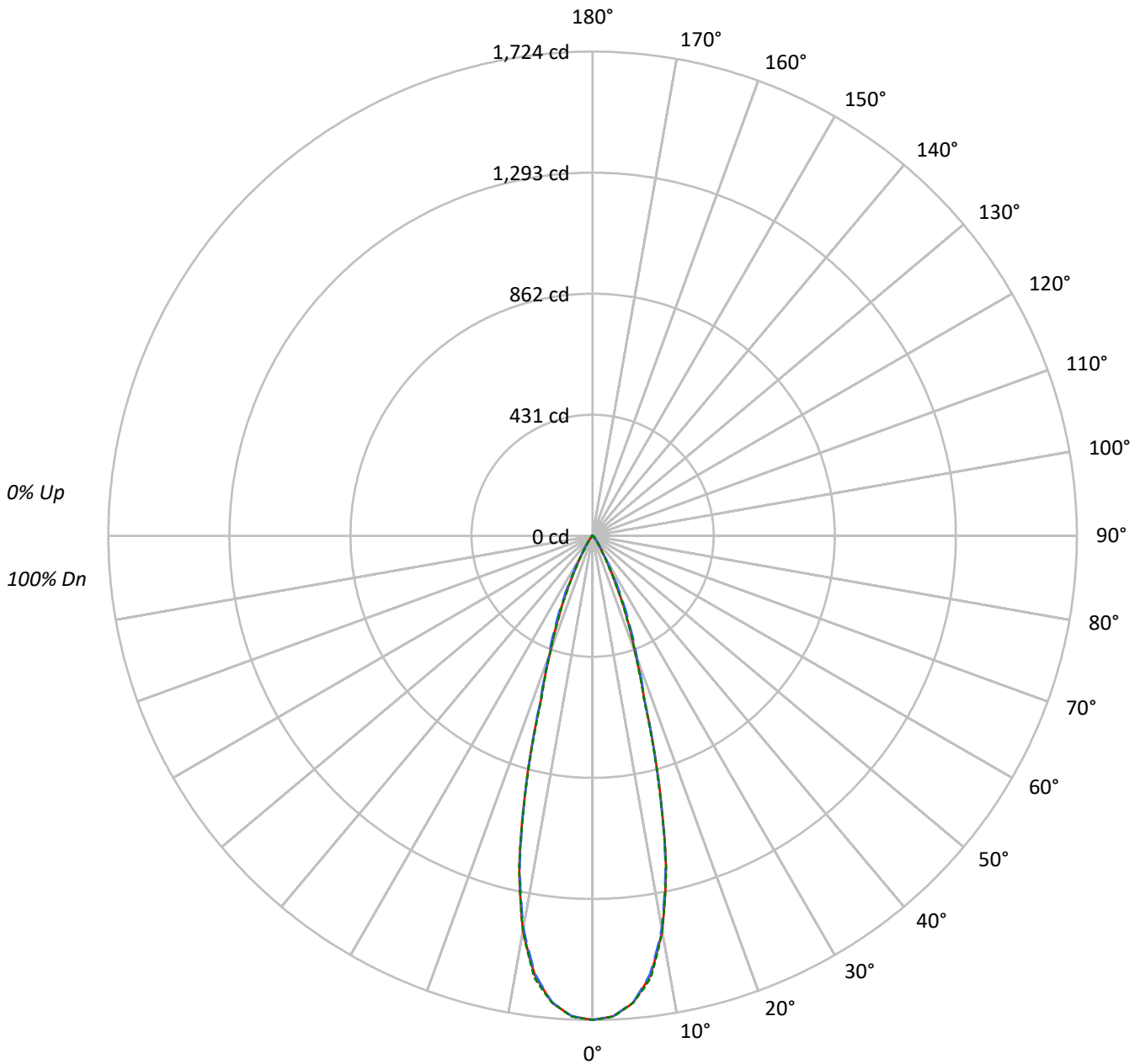
Downlight



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

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

	0°	45°	90°
0°	131938	131938	131938
5°	128154	128001	128154
10°	110998	110213	110967
15°	72421	72032	71668
20°	36012	37364	35963
25°	18141	20455	17770
30°	7265	7919	6328
35°	3364	3224	2700
40°	1459	1619	1369
45°	1028	1267	1039
50°	357	929	381
55°	200	387	214
60°	138	168	138
65°	91	91	91
70°	45	45	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1267 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.6	28.3
10°-20°	244.1	45.5
20°-30°	105.5	19.7
30°-40°	24.0	4.5
40°-50°	8.3	1.5
50°-60°	2.0	0.4
60°-70°	0.5	0.1
70°-80°	0.1	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°	501.2	93.5
0°-40°	525.2	98.0
0°-60°	535.5	99.9
0°-90°	536.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1668	1666	1666	1669	1668	152
15°	914	903	909	906	904	245
25°	215	223	242	217	210	103
35°	36	37	34	34	29	24
45°	10	12	12	12	10	7
55°	2	2	3	2	2	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1723.7	1723.7	1723.7	1723.7	1723.7
2.5°	1712.3	1711.1	1711.7	1712.6	1713.0
5°	1667.9	1666.3	1665.9	1669.3	1667.9
7.5°	1578.2	1576.0	1572.5	1580.3	1587.7
10°	1428.1	1425.6	1418.0	1421.7	1427.7
12.5°	1206.5	1198.2	1198.1	1209.9	1208.3
15°	913.9	902.9	909.0	906.0	904.4
17.5°	614.5	610.3	618.4	616.0	605.4
20°	442.1	443.2	458.7	450.9	441.5
22.5°	322.6	326.6	344.9	324.9	317.5
25°	214.8	222.9	242.2	217.3	210.4
27.5°	132.1	135.8	155.4	130.4	126.7
30°	82.2	80.3	89.6	76.8	71.6
32.5°	53.9	51.6	54.5	48.9	44.7
35°	36.0	36.8	34.5	34.3	28.9
37.5°	22.5	25.9	22.9	24.4	18.6
40°	14.6	18.8	16.2	17.9	13.7
42.5°	11.9	14.5	13.3	14.2	12.2
45°	9.5	11.7	11.7	11.7	9.6
47.5°	5.3	7.8	10.1	8.0	5.6
50°	3.0	4.0	7.8	4.1	3.2
52.5°	2.0	2.3	5.3	2.3	2.1
55°	1.5	1.6	2.9	1.7	1.6
57.5°	1.2	1.3	1.5	1.3	1.2
60°	0.9	0.9	1.1	1.0	0.9
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)