

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: P746011

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746011  
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: LD4D30D010-EU4DR3020359035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2724.9 lumens  
Efficiency: N/A  
Efficacy: 94.0 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): 29  
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

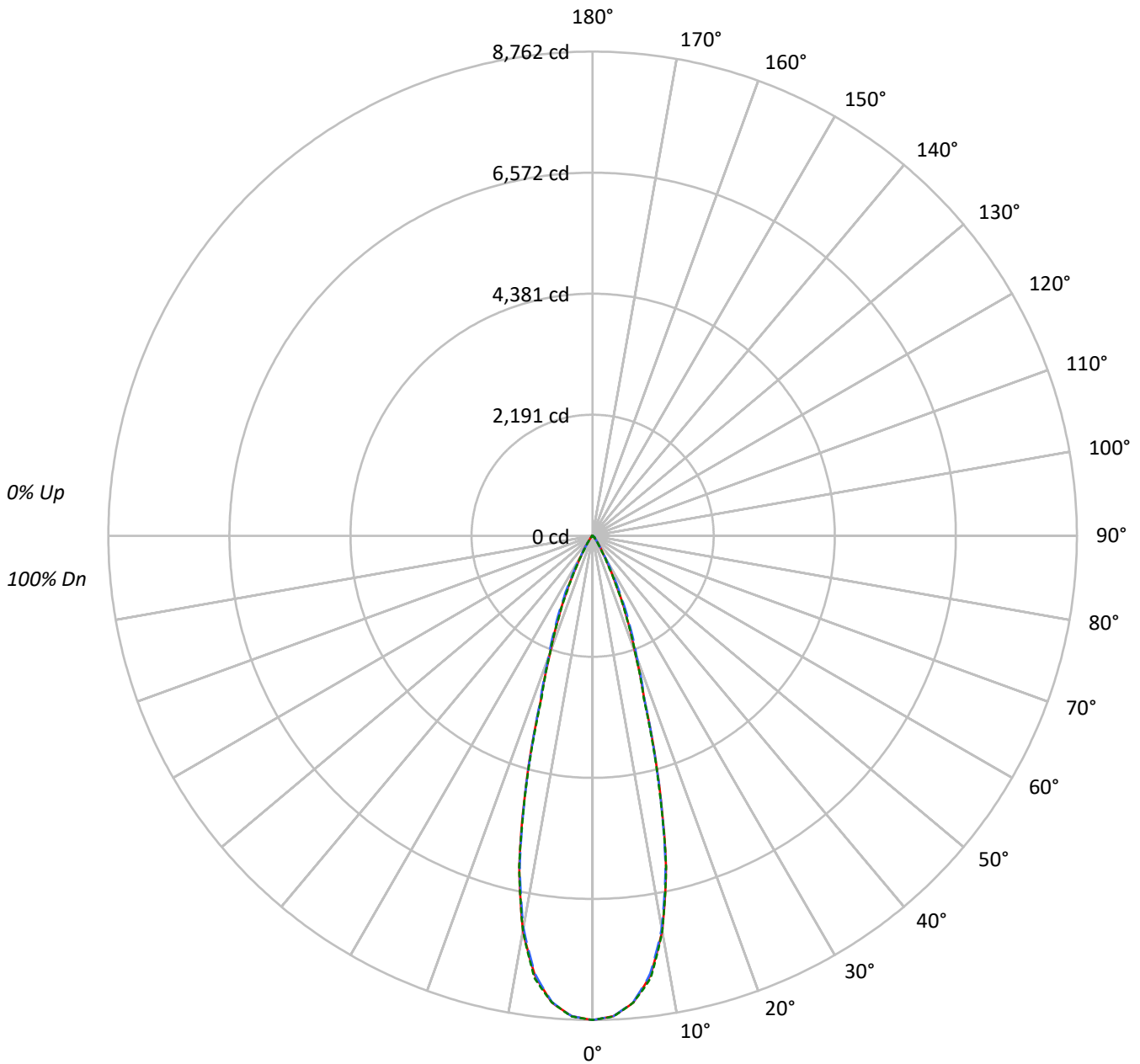


Downlight



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

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

	0°	45°	90°
0°	670650	670650	670650
5°	651391	650638	651429
10°	564208	560228	564068
15°	368118	366137	364298
20°	183047	189914	182803
25°	92209	103983	90318
30°	36918	40224	32163
35°	17119	16399	13745
40°	7394	8213	6964
45°	5218	6473	5261
50°	1798	4716	1893
55°	1028	1948	1094
60°	735	857	735
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6473 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.5	28.3
10°-20°	1240.8	45.5
20°-30°	536.2	19.7
30°-40°	122.2	4.5
40°-50°	42.0	1.5
50°-60°	10.3	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2547.5	93.5
0°-40°	2669.7	98.0
0°-60°	2721.9	99.9
0°-90°	2724.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8762	8762	8762	8762	8762	
5°	8478	8470	8468	8486	8478	771
15°	4645	4590	4620	4605	4597	1244
25°	1092	1133	1231	1104	1069	523
35°	183	187	176	174	147	124
45°	48	60	60	60	49	34
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	8761.7	8761.7	8761.7	8761.7	8761.7
2.5°	8703.6	8697.6	8701.0	8705.3	8707.0
5°	8477.7	8469.6	8467.9	8485.5	8478.2
7.5°	8022.2	8010.6	7993.0	8032.9	8070.4
10°	7259.1	7246.2	7207.9	7226.8	7257.3
12.5°	6132.5	6090.8	6089.9	6150.1	6141.9
15°	4645.4	4589.5	4620.4	4605.4	4597.2
17.5°	3123.9	3102.4	3143.7	3131.2	3077.4
20°	2247.2	2252.8	2331.5	2291.9	2244.2
22.5°	1639.8	1660.0	1753.3	1651.4	1614.0
25°	1091.8	1133.1	1231.2	1104.2	1069.4
27.5°	671.5	690.4	789.8	662.9	643.9
30°	417.7	408.2	455.1	390.6	363.9
32.5°	274.0	262.0	277.0	248.7	227.1
35°	183.2	187.1	175.5	174.2	147.1
37.5°	114.4	131.6	116.1	123.9	94.7
40°	74.0	95.5	82.2	90.8	69.7
42.5°	60.7	73.6	67.6	71.8	61.9
45°	48.2	59.8	59.8	59.8	48.6
47.5°	26.6	40.0	51.2	40.9	28.4
50°	15.1	20.2	39.6	21.1	15.9
52.5°	10.3	11.6	27.1	12.0	10.8
55°	7.7	8.2	14.6	8.6	8.2
57.5°	6.0	6.5	7.7	6.5	6.0
60°	4.8	4.8	5.6	5.2	4.8
62.5°	3.4	3.4	3.9	3.4	3.4
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)