

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: P745998

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745998  
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-EU4DR3020359030-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2581.2 lumens  
Efficiency: N/A  
Efficacy: 89.0 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 (Ain): 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

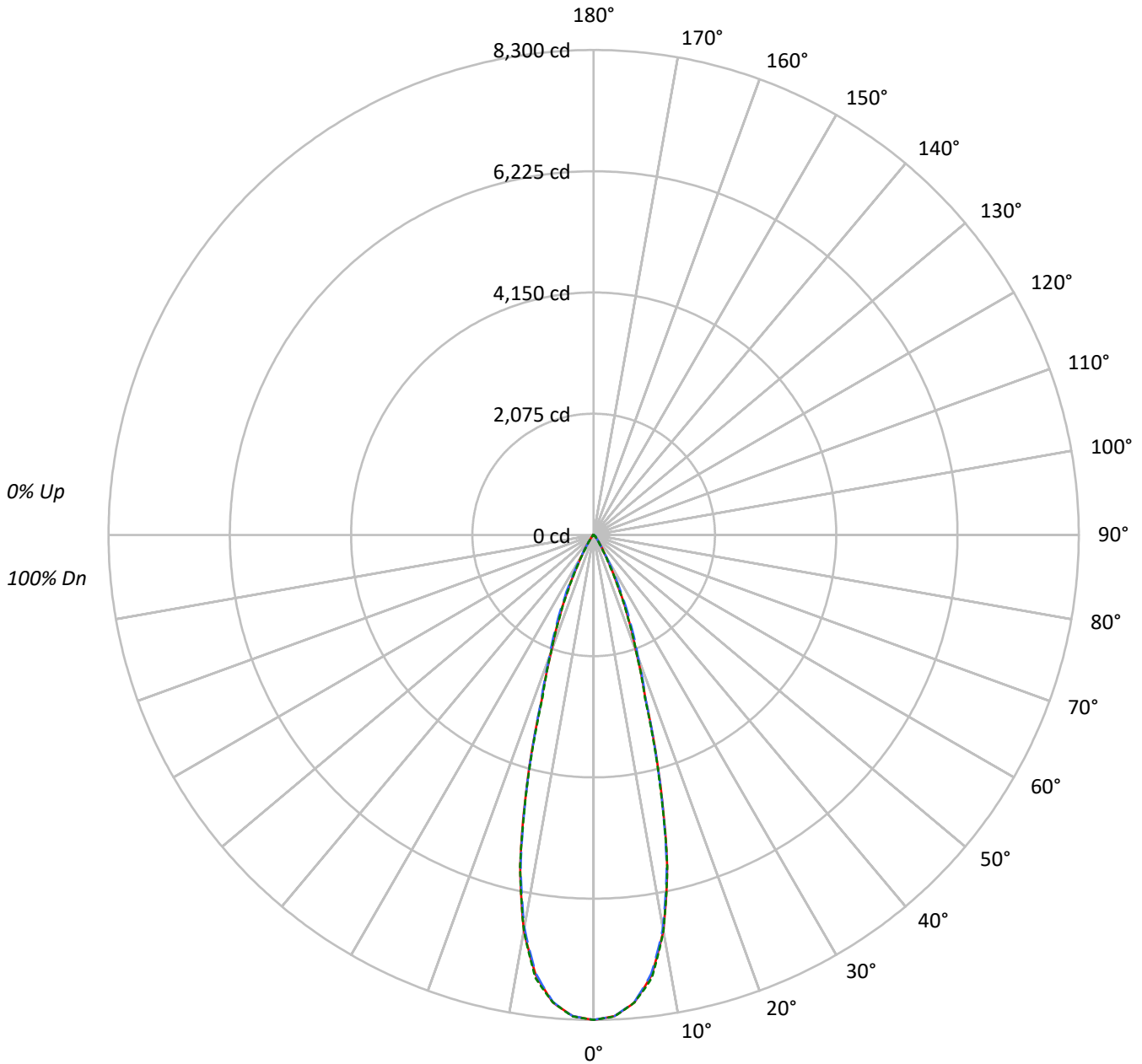


Downlight



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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°	635280	635280	635280
5°	617045	616323	617076
10°	534455	530678	534323
15°	348703	346833	345090
20°	173395	179903	173159
25°	87345	98493	85554
30°	34974	38103	30466
35°	16222	15539	13017
40°	7004	7774	6595
45°	4947	6138	4990
50°	1703	4466	1798
55°	974	1855	1028
60°	689	811	689
65°	453	453	453
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6138 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.8	28.3
10°-20°	1175.4	45.5
20°-30°	507.9	19.7
30°-40°	115.8	4.5
40°-50°	39.8	1.5
50°-60°	9.7	0.4
60°-70°	2.5	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°	2413.1	93.5
0°-40°	2528.9	98.0
0°-60°	2578.4	99.9
0°-90°	2581.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8300	8300	8300	8300	8300	
5°	8031	8023	8021	8038	8031	730
15°	4400	4347	4377	4362	4355	1178
25°	1034	1073	1166	1046	1013	495
35°	174	177	166	165	139	118
45°	46	57	57	57	46	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
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°	8299.6	8299.6	8299.6	8299.6	8299.6
2.5°	8244.6	8238.9	8242.1	8246.2	8247.8
5°	8030.7	8022.9	8021.3	8038.0	8031.1
7.5°	7599.1	7588.1	7571.4	7609.3	7644.8
10°	6876.3	6864.0	6827.7	6845.7	6874.6
12.5°	5809.0	5769.5	5768.7	5825.8	5818.0
15°	4400.4	4347.4	4376.8	4362.5	4354.8
17.5°	2959.1	2938.8	2977.9	2966.1	2915.1
20°	2128.7	2134.0	2208.6	2171.1	2125.8
22.5°	1553.3	1572.5	1660.9	1564.3	1528.9
25°	1034.2	1073.3	1166.2	1046.0	1013.0
27.5°	636.1	654.0	748.2	628.0	610.0
30°	395.7	386.7	431.1	370.0	344.7
32.5°	259.5	248.1	262.4	235.5	215.1
35°	173.6	177.3	166.3	165.0	139.3
37.5°	108.4	124.7	110.0	117.3	89.7
40°	70.1	90.5	77.8	86.0	66.0
42.5°	57.5	69.7	64.0	68.1	58.7
45°	45.7	56.7	56.7	56.7	46.1
47.5°	25.3	37.9	48.5	38.7	26.9
50°	14.3	19.1	37.5	19.9	15.1
52.5°	9.8	11.0	25.7	11.4	10.2
55°	7.3	7.7	13.9	8.1	7.7
57.5°	5.7	6.1	7.3	6.1	5.7
60°	4.5	4.5	5.3	4.9	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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)