

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: P745777

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D30D010-EU4DR1515309035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2821.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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

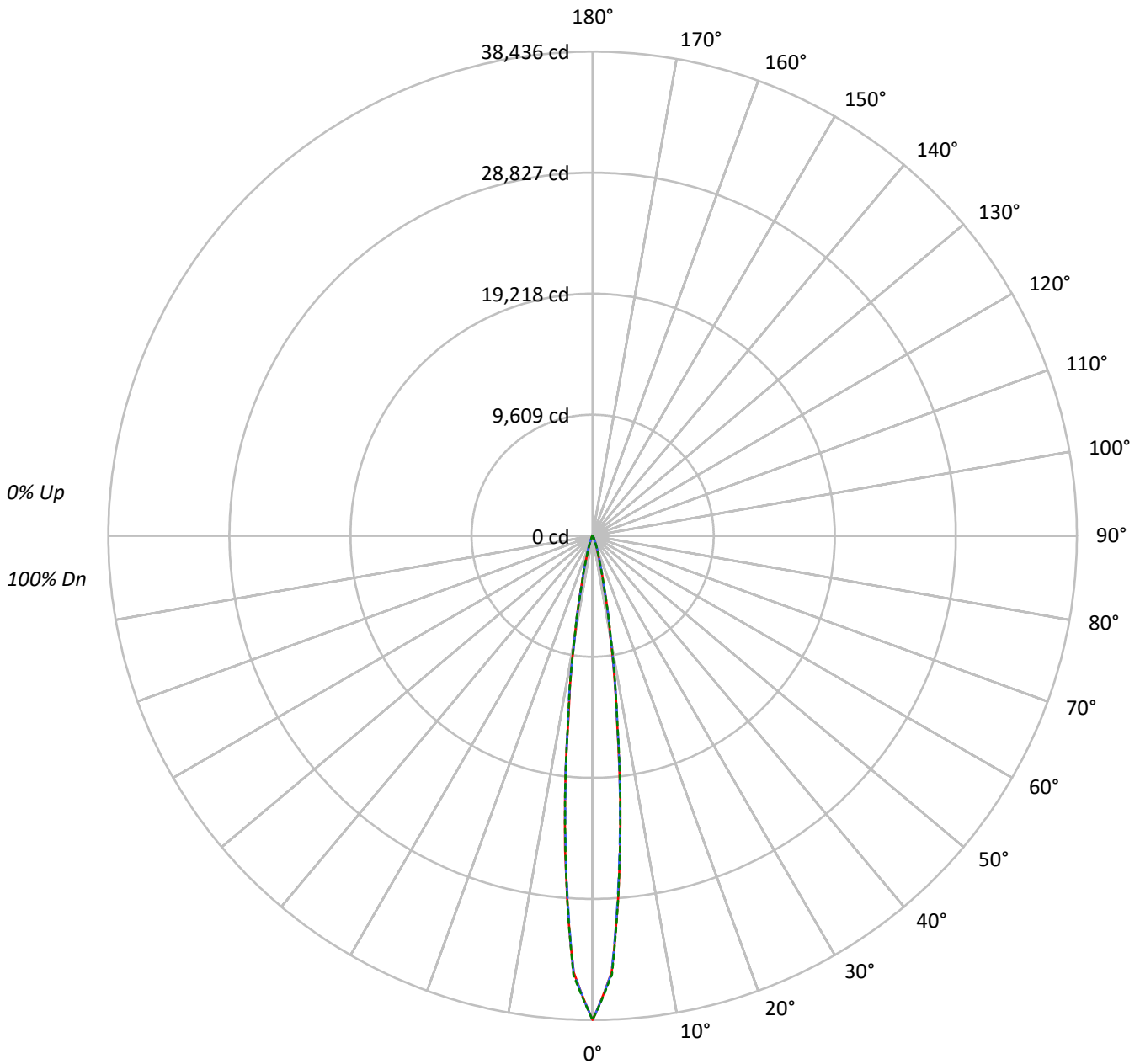


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	4324772	4324772	4324772
5°	2541434	2508527	2528375
10°	758497	763816	775507
15°	188670	192344	186412
20°	56450	65368	57644
25°	19904	25349	20153
30°	7308	9622	7436
35°	3660	4132	3544
40°	2308	2542	2308
45°	1708	1820	1708
50°	1356	1356	1356
55°	1135	1135	1135
60°	913	913	913
65°	699	699	699
70°	592	592	592
75°	370	370	491
80°	260	260	260
85°	133	133	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1820 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1829.6	64.9
10°-20°	752.6	26.7
20°-30°	149.5	5.3
30°-40°	37.3	1.3
40°-50°	19.6	0.7
50°-60°	14.5	0.5
60°-70°	10.3	0.4
70°-80°	5.9	0.2
80°-90°	1.8	0.1
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°	2731.7	96.8
0°-40°	2769.0	98.2
0°-60°	2803.1	99.4
0°-90°	2821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	38436	38436	38436	38436	38436	
5°	25007	24750	24683	24854	24878	1826
15°	2172	2213	2214	2175	2146	745
25°	256	290	325	288	259	134
35°	50	54	57	54	49	34
45°	24	24	26	24	24	19
55°	16	16	16	16	16	15
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	38435.6	38435.6	38435.6	38435.6	38435.6
2.5°	34670.4	34699.7	34711.1	34745.3	34872.2
5°	25007.0	24749.9	24683.2	24854.1	24878.5
7.5°	14813.2	14865.3	15055.6	15097.9	14945.0
10°	8129.0	8195.7	8186.0	8244.6	8311.3
12.5°	4157.3	4105.2	4088.9	4155.6	4062.9
15°	2172.2	2212.9	2214.5	2175.4	2146.2
17.5°	1168.3	1215.5	1293.6	1230.1	1132.5
20°	689.9	732.2	798.9	746.8	704.5
22.5°	426.3	460.5	507.7	467.0	432.8
25°	255.5	289.6	325.4	288.0	258.7
27.5°	151.3	180.6	203.4	179.0	149.7
30°	97.6	113.9	128.5	112.3	99.3
32.5°	68.3	74.8	81.4	74.8	68.3
35°	50.4	53.7	56.9	53.7	48.8
37.5°	39.1	42.3	43.9	40.7	37.4
40°	32.5	34.2	35.8	34.2	32.5
42.5°	27.7	29.3	29.3	29.3	27.7
45°	24.4	24.4	26.0	24.4	24.4
47.5°	21.2	21.2	22.8	21.2	21.2
50°	19.5	19.5	19.5	19.5	19.5
52.5°	17.9	17.9	17.9	17.9	17.9
55°	16.3	16.3	16.3	16.3	16.3
57.5°	14.6	14.6	14.6	14.6	14.6
60°	13.0	13.0	13.0	13.0	13.0
62.5°	11.4	11.4	11.4	11.4	11.4
65°	9.8	9.8	9.8	9.8	9.8
67.5°	9.8	9.8	9.8	9.8	9.8
70°	8.1	8.1	8.1	8.1	8.1
72.5°	6.5	6.5	6.5	6.5	6.5
75°	4.9	4.9	4.9	4.9	6.5
77.5°	4.9	4.9	4.9	4.9	4.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6
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)