

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: P745751

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745751  
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-EU4DR1515309027-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2588.0 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

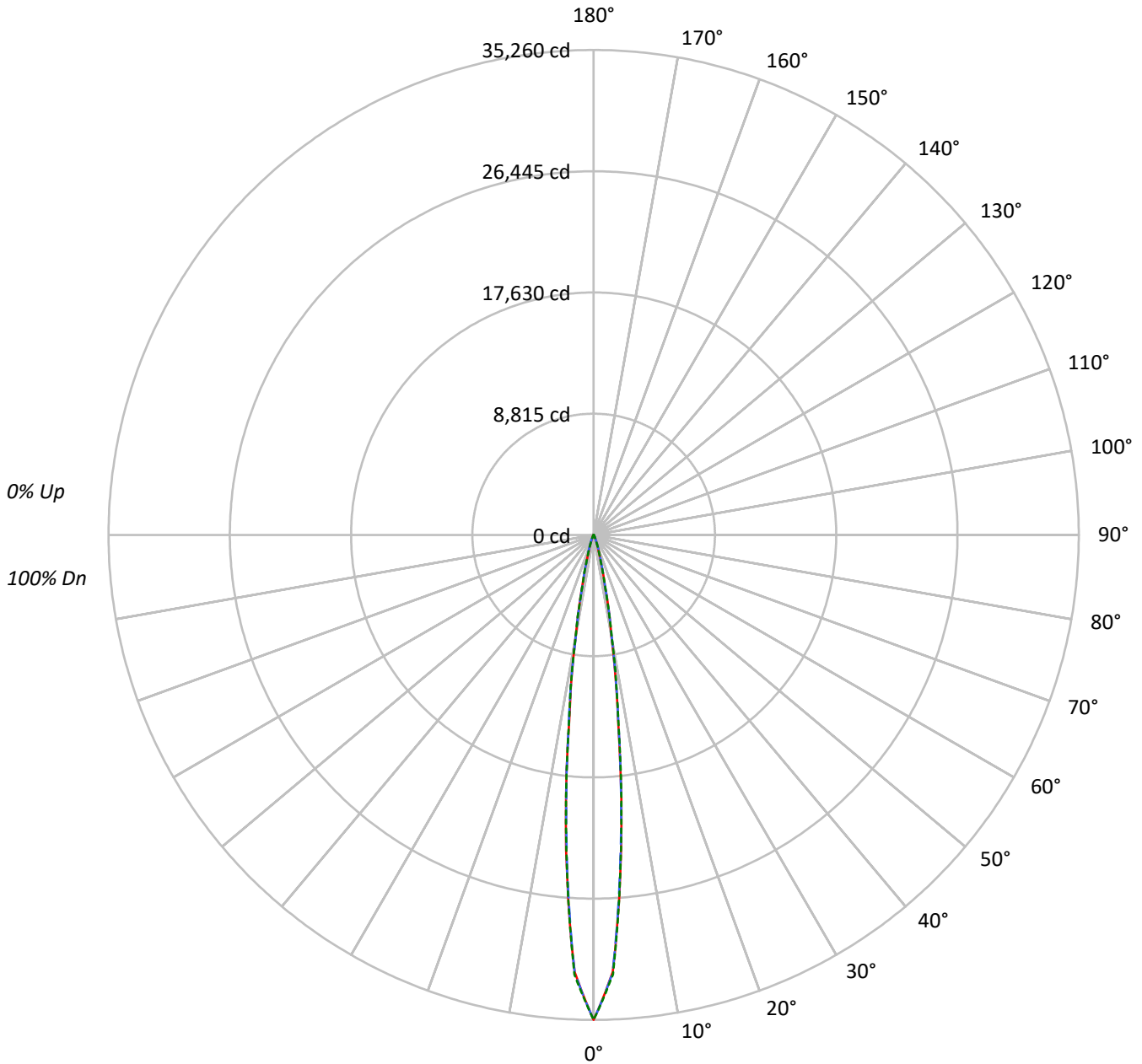


Downlight



TEST NUMBER: P745751  
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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					70					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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96					96			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94					94			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93					93			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92					92			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90					90			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89					89			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88					88			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87					87			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86					86			

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

	0°	45°	90°
0°	3967510	3967510	3967510
5°	2331499	2301305	2319507
10°	695841	700721	711442
15°	173080	176458	171012
20°	51786	59968	52882
25°	18260	23253	18486
30°	6709	8828	6822
35°	3362	3791	3253
40°	2123	2329	2123
45°	1568	1673	1568
50°	1245	1245	1245
55°	1037	1037	1037
60°	835	835	835
65°	642	642	642
70°	549	549	549
75°	340	340	454
80°	236	236	236
85°	125	125	125

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1673 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1678.5	64.9
10°-20°	690.4	26.7
20°-30°	137.1	5.3
30°-40°	34.2	1.3
40°-50°	18.0	0.7
50°-60°	13.3	0.5
60°-70°	9.4	0.4
70°-80°	5.4	0.2
80°-90°	1.6	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°	2506.0	96.8
0°-40°	2540.2	98.2
0°-60°	2571.5	99.4
0°-90°	2588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35260	35260	35260	35260	35260	
5°	22941	22705	22644	22801	22823	1675
15°	1993	2030	2032	1996	1969	683
25°	234	266	298	264	237	123
35°	46	49	52	49	45	31
45°	22	22	24	22	22	18
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
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°	35260.5	35260.5	35260.5	35260.5	35260.5
2.5°	31806.4	31833.2	31843.7	31875.0	31991.5
5°	22941.3	22705.4	22644.2	22800.9	22823.3
7.5°	13589.5	13637.3	13811.9	13850.7	13710.4
10°	7457.5	7518.7	7509.8	7563.5	7624.7
12.5°	3813.8	3766.1	3751.1	3812.3	3727.3
15°	1992.7	2030.1	2031.6	1995.7	1968.9
17.5°	1071.8	1115.0	1186.7	1128.5	1038.9
20°	632.9	671.7	732.9	685.1	646.3
22.5°	391.1	422.4	465.7	428.4	397.1
25°	234.4	265.7	298.5	264.2	237.3
27.5°	138.8	165.7	186.6	164.2	137.3
30°	89.6	104.5	117.9	103.0	91.1
32.5°	62.7	68.7	74.6	68.7	62.7
35°	46.3	49.3	52.2	49.3	44.8
37.5°	35.8	38.8	40.3	37.3	34.3
40°	29.9	31.3	32.8	31.3	29.9
42.5°	25.4	26.9	26.9	26.9	25.4
45°	22.4	22.4	23.9	22.4	22.4
47.5°	19.4	19.4	20.9	19.4	19.4
50°	17.9	17.9	17.9	17.9	17.9
52.5°	16.4	16.4	16.4	16.4	16.4
55°	14.9	14.9	14.9	14.9	14.9
57.5°	13.4	13.4	13.4	13.4	13.4
60°	11.9	11.9	11.9	11.9	11.9
62.5°	10.4	10.4	10.4	10.4	10.4
65°	9.0	9.0	9.0	9.0	9.0
67.5°	9.0	9.0	9.0	9.0	9.0
70°	7.5	7.5	7.5	7.5	7.5
72.5°	6.0	6.0	6.0	6.0	6.0
75°	4.5	4.5	4.5	4.5	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5
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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