

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: P745981

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745981
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-EU4DR3020359027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2039.2 lumens
Efficiency: N/A
Efficacy: 70.3 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_{in}): 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

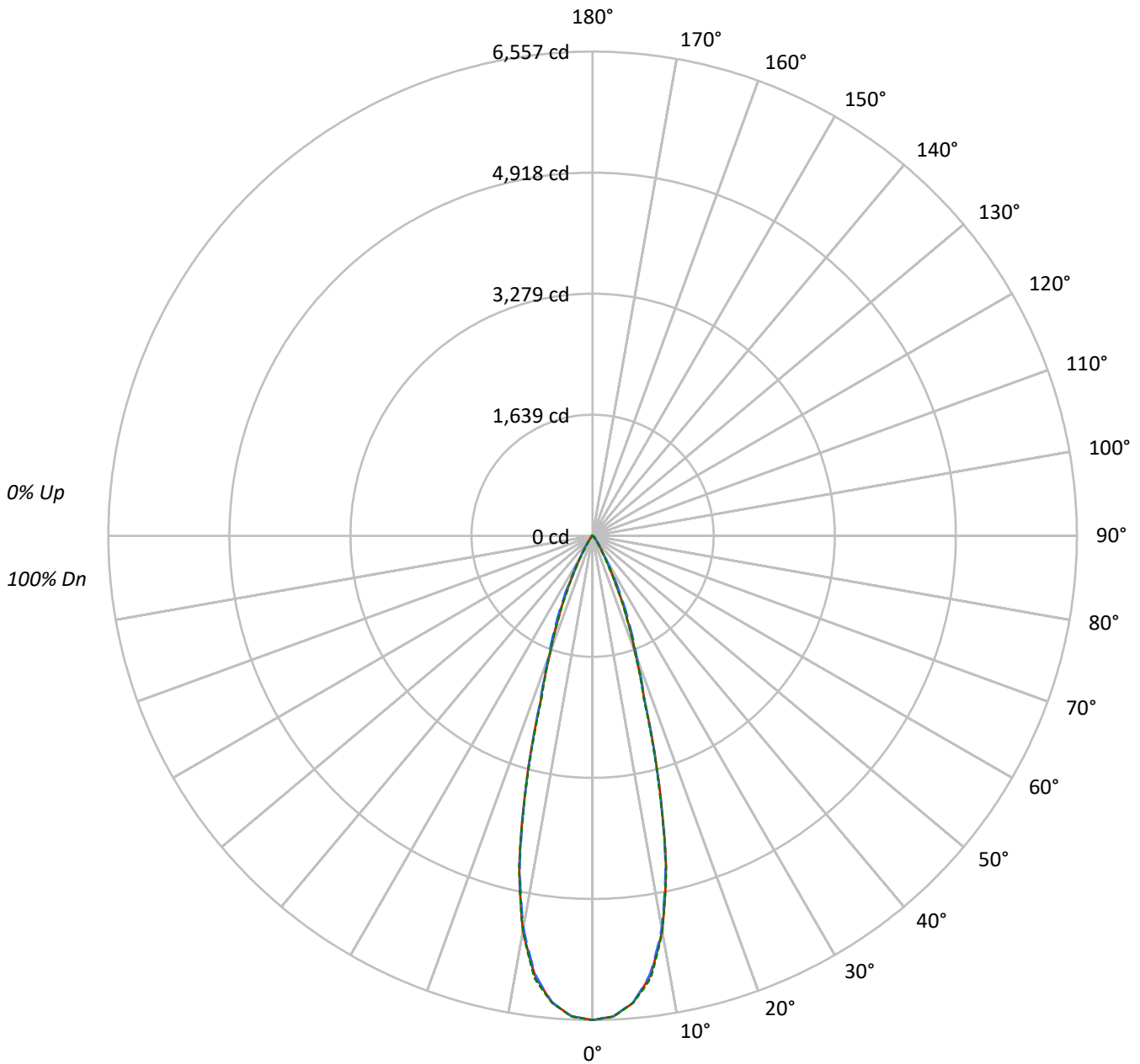


Downlight



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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°	501895	501895	501895
5°	487485	486916	487508
10°	422237	419260	422136
15°	275490	274008	272630
20°	136984	142124	136805
25°	69001	77818	67590
30°	27629	30104	24067
35°	12820	12269	10288
40°	5526	6145	5206
45°	3897	4839	3940
50°	1346	3525	1417
55°	774	1455	814
60°	551	643	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4839 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.6	28.3
10°-20°	928.6	45.5
20°-30°	401.3	19.7
30°-40°	91.5	4.5
40°-50°	31.4	1.5
50°-60°	7.7	0.4
60°-70°	2.0	0.1
70°-80°	0.2	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°	1906.5	93.5
0°-40°	1997.9	98.0
0°-60°	2037.0	99.9
0°-90°	2039.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2039.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6557	6557	6557	6557	6557	
5°	6344	6338	6337	6350	6345	577
15°	3476	3435	3458	3446	3440	931
25°	817	848	921	826	800	391
35°	137	140	131	130	110	93
45°	36	45	45	45	36	26
55°	6	6	11	6	6	6
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6557.0	6557.0	6557.0	6557.0	6557.0
2.5°	6513.5	6509.0	6511.6	6514.8	6516.1
5°	6344.5	6338.4	6337.1	6350.3	6344.8
7.5°	6003.6	5994.9	5981.7	6011.6	6039.6
10°	5432.5	5422.8	5394.2	5408.4	5431.2
12.5°	4589.3	4558.1	4557.5	4602.6	4596.4
15°	3476.5	3434.6	3457.8	3446.5	3440.4
17.5°	2337.8	2321.7	2352.7	2343.3	2303.0
20°	1681.7	1685.9	1744.8	1715.2	1679.5
22.5°	1227.2	1242.3	1312.2	1235.9	1207.8
25°	817.0	848.0	921.4	826.4	800.3
27.5°	502.5	516.7	591.1	496.1	481.9
30°	312.6	305.5	340.6	292.3	272.3
32.5°	205.1	196.1	207.3	186.1	170.0
35°	137.2	140.0	131.3	130.4	110.1
37.5°	85.7	98.5	86.9	92.7	70.8
40°	55.3	71.4	61.5	68.0	52.1
42.5°	45.4	55.1	50.5	53.7	46.4
45°	36.0	44.7	44.7	44.7	36.4
47.5°	19.9	30.0	38.3	30.6	21.3
50°	11.3	15.1	29.6	15.8	11.9
52.5°	7.7	8.7	20.3	9.0	8.0
55°	5.8	6.1	10.9	6.4	6.1
57.5°	4.5	4.8	5.8	4.8	4.5
60°	3.6	3.6	4.2	3.8	3.6
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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





— 0°-180° - - 45°-225° - - - - 90°-270°

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