

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: P745970

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745970
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-EU4DR3020359024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2395.8 lumens
Efficiency: N/A
Efficacy: 82.6 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

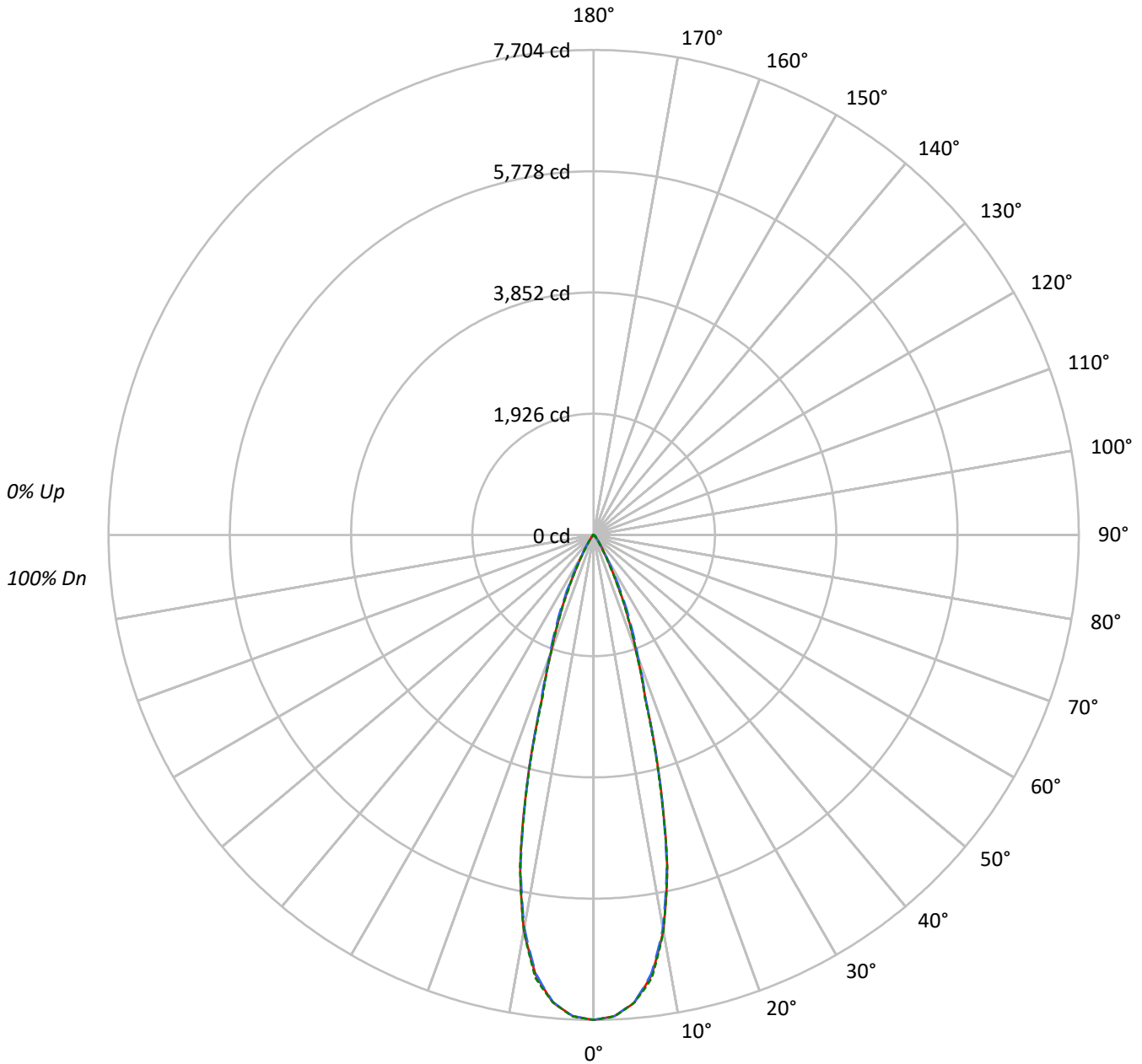


Downlight



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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°	589660	589660	589660
5°	572734	572065	572757
10°	496067	492577	495958
15°	323662	321927	320310
20°	160940	166984	160729
25°	81070	91424	79414
30°	32464	35363	28283
35°	15054	14418	12091
40°	6495	7214	6115
45°	4579	5694	4622
50°	1572	4144	1667
55°	907	1708	961
60°	643	750	643
65°	417	417	417
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5694 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.4	28.3
10°-20°	1091.0	45.5
20°-30°	471.4	19.7
30°-40°	107.4	4.5
40°-50°	36.9	1.5
50°-60°	9.0	0.4
60°-70°	2.3	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°	2239.8	93.5
0°-40°	2347.3	98.0
0°-60°	2393.2	99.9
0°-90°	2395.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2395.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7704	7704	7704	7704	7704	
5°	7454	7447	7445	7461	7454	678
15°	4084	4035	4062	4049	4042	1094
25°	960	996	1082	971	940	459
35°	161	165	154	153	129	109
45°	42	53	53	53	43	30
55°	7	7	13	8	7	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7703.6	7703.6	7703.6	7703.6	7703.6
2.5°	7652.5	7647.2	7650.3	7654.0	7655.5
5°	7454.0	7446.8	7445.3	7460.8	7454.3
7.5°	7053.4	7043.2	7027.7	7062.9	7095.8
10°	6382.4	6371.1	6337.5	6354.1	6381.0
12.5°	5391.9	5355.2	5354.5	5407.4	5400.2
15°	4084.4	4035.2	4062.5	4049.2	4042.1
17.5°	2746.6	2727.7	2764.0	2753.1	2705.8
20°	1975.8	1980.7	2050.0	2015.2	1973.2
22.5°	1441.8	1459.5	1541.6	1452.0	1419.1
25°	959.9	996.2	1082.5	970.9	940.3
27.5°	590.4	607.0	694.4	582.9	566.2
30°	367.3	359.0	400.1	343.4	320.0
32.5°	240.9	230.3	243.6	218.6	199.7
35°	161.1	164.6	154.3	153.2	129.4
37.5°	100.6	115.7	102.1	108.9	83.2
40°	65.0	83.9	72.2	79.8	61.2
42.5°	53.3	64.7	59.4	63.1	54.5
45°	42.3	52.6	52.6	52.6	42.7
47.5°	23.4	35.2	45.0	35.9	25.0
50°	13.2	17.8	34.8	18.5	14.0
52.5°	9.1	10.2	23.8	10.6	9.5
55°	6.8	7.2	12.8	7.6	7.2
57.5°	5.3	5.7	6.8	5.7	5.3
60°	4.2	4.2	4.9	4.5	4.2
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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





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

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