

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: P745994

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745994
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-EU4DR3020359030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2105.6 lumens
Efficiency: N/A
Efficacy: 72.6 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



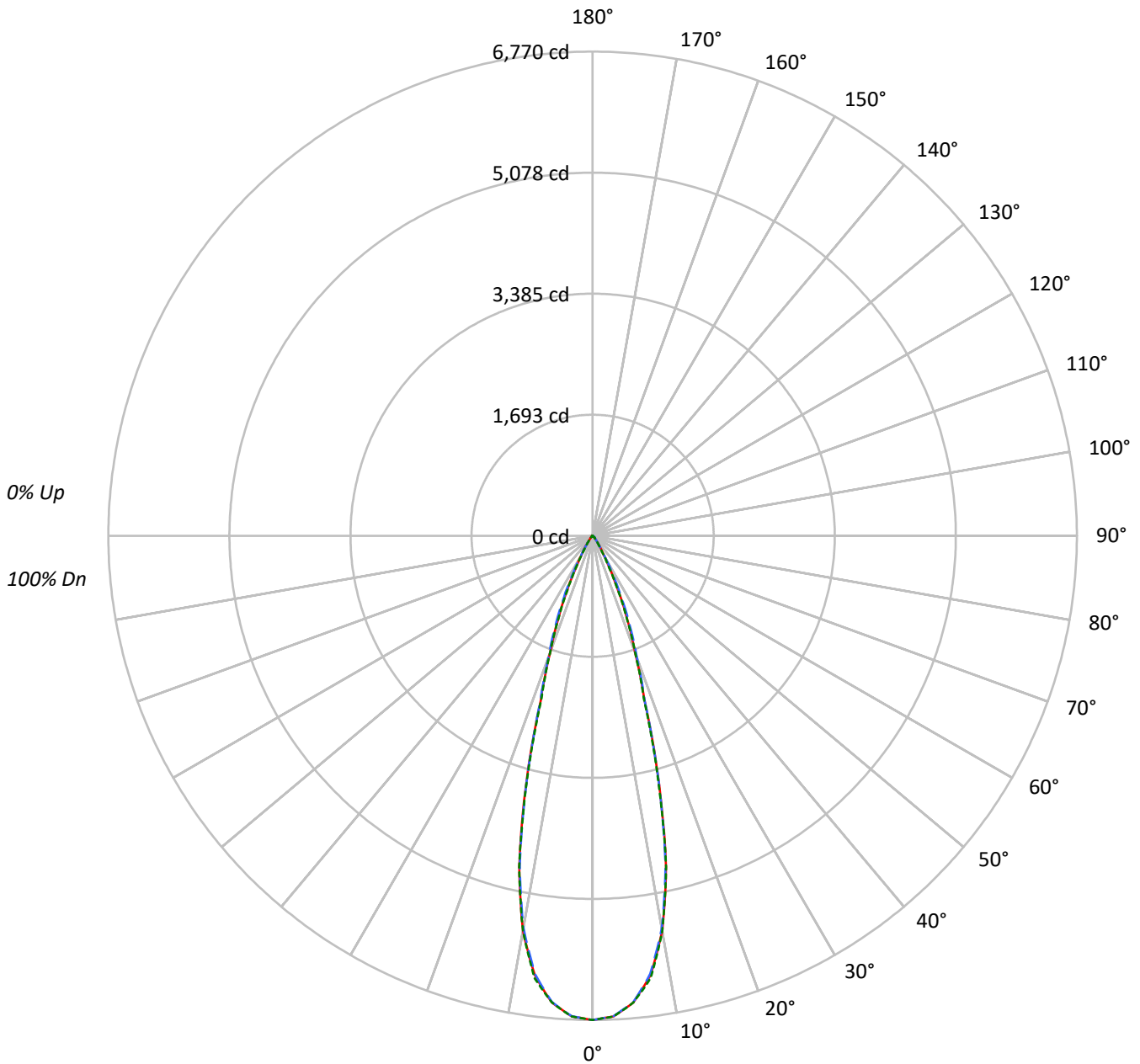
Downlight



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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	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°	518229	518229	518229
5°	503359	502767	503382
10°	435986	432908	435877
15°	284461	282931	281505
20°	141448	146751	141261
25°	71256	80343	69795
30°	28522	31085	24854
35°	13231	12671	10624
40°	5715	6345	5386
45°	4027	5001	4070
50°	1381	3644	1465
55°	801	1508	841
60°	566	658	566
65°	362	362	362
70°	224	157	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: 5001 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.4	28.3
10°-20°	958.8	45.5
20°-30°	414.3	19.7
30°-40°	94.4	4.5
40°-50°	32.4	1.5
50°-60°	7.9	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°	1968.5	93.5
0°-40°	2063.0	98.0
0°-60°	2103.3	99.9
0°-90°	2105.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6770	6770	6770	6770	6770	
5°	6551	6545	6543	6557	6551	596
15°	3590	3546	3570	3559	3552	961
25°	844	876	951	853	826	404
35°	142	145	136	135	114	96
45°	37	46	46	46	38	26
55°	6	6	11	7	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6770.4	6770.4	6770.4	6770.4	6770.4
2.5°	6725.6	6720.9	6723.6	6726.9	6728.2
5°	6551.1	6544.8	6543.4	6557.0	6551.4
7.5°	6199.0	6190.0	6176.5	6207.3	6236.3
10°	5609.4	5599.4	5569.8	5584.4	5608.0
12.5°	4738.8	4706.6	4705.9	4752.4	4746.1
15°	3589.7	3546.5	3570.4	3558.8	3552.4
17.5°	2414.0	2397.3	2429.3	2419.6	2378.0
20°	1736.5	1740.8	1801.6	1771.0	1734.2
22.5°	1267.1	1282.8	1354.9	1276.1	1247.2
25°	843.7	875.6	951.3	853.3	826.4
27.5°	518.9	533.5	610.3	512.2	497.6
30°	322.7	315.5	351.7	301.8	281.2
32.5°	211.8	202.4	214.1	192.1	175.5
35°	141.6	144.6	135.6	134.6	113.7
37.5°	88.4	101.7	89.7	95.7	73.1
40°	57.2	73.8	63.5	70.1	53.9
42.5°	46.9	56.8	52.2	55.5	47.8
45°	37.2	46.2	46.2	46.2	37.6
47.5°	20.6	30.9	39.5	31.6	21.9
50°	11.6	15.6	30.6	16.3	12.3
52.5°	8.0	9.0	21.0	9.3	8.3
55°	6.0	6.3	11.3	6.6	6.3
57.5°	4.6	5.0	6.0	5.0	4.6
60°	3.7	3.7	4.3	4.0	3.7
62.5°	2.6	2.6	3.0	2.6	2.6
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	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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