

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: P745971

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745971
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-EU4DR3020359024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2035.4 lumens
Efficiency: N/A
Efficacy: 70.2 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



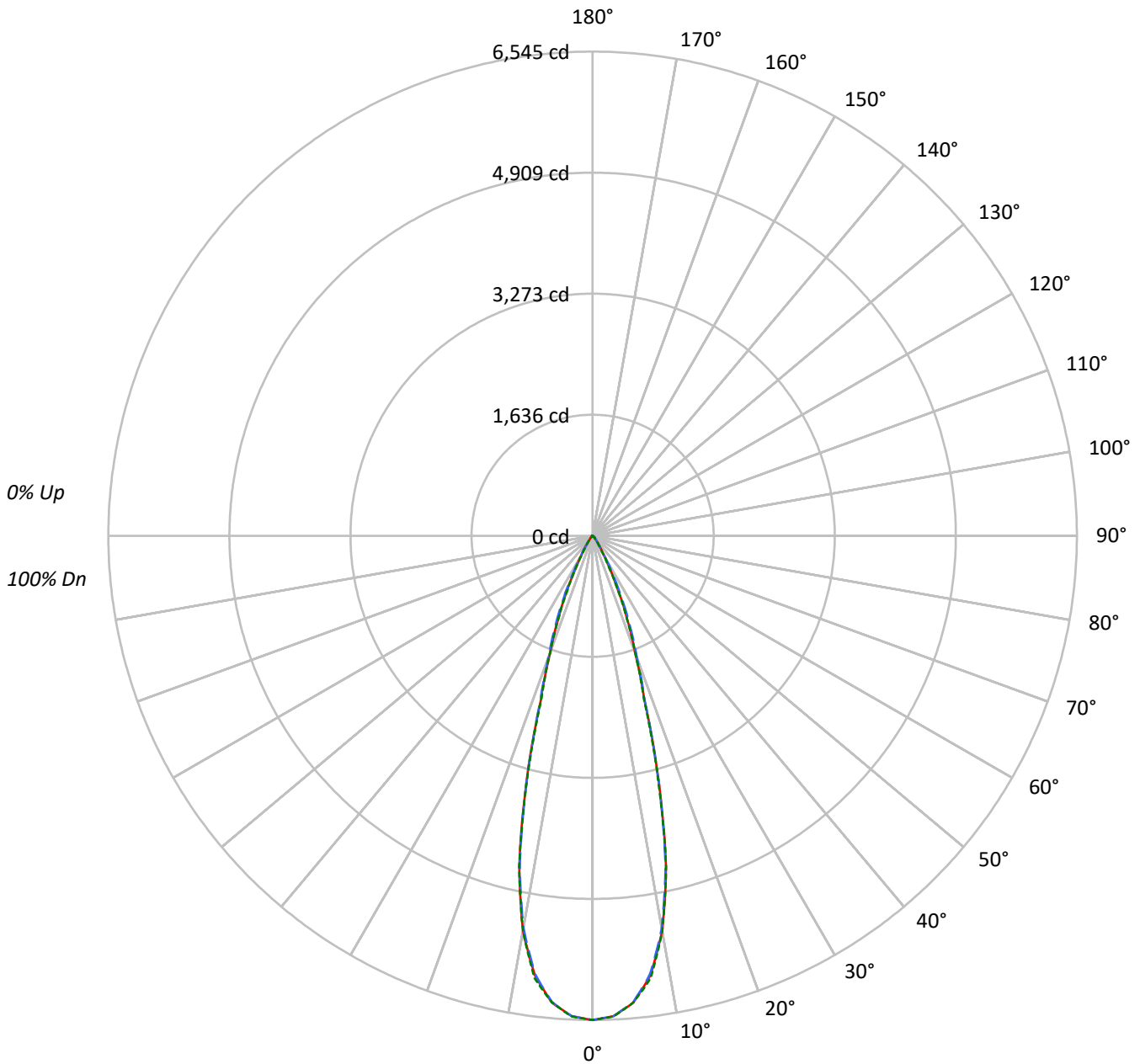
Downlight



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	500961	500961	500961
5°	486578	486009	486609
10°	421452	418475	421351
15°	274975	273501	272122
20°	136732	141863	136544
25°	68874	77666	67464
30°	27576	30051	24032
35°	12792	12250	10269
40°	5526	6135	5206
45°	3897	4839	3929
50°	1334	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°	575.5	28.3
10°-20°	926.9	45.5
20°-30°	400.5	19.7
30°-40°	91.3	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°	1902.9	93.5
0°-40°	1994.2	98.0
0°-60°	2033.2	99.9
0°-90°	2035.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6545	6545	6545	6545	6545	
5°	6333	6327	6325	6338	6333	576
15°	3470	3428	3451	3440	3434	929
25°	816	846	920	825	799	390
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6544.8	6544.8	6544.8	6544.8	6544.8
2.5°	6501.4	6496.9	6499.5	6502.7	6504.0
5°	6332.7	6326.6	6325.3	6338.5	6333.1
7.5°	5992.4	5983.7	5970.6	6000.5	6028.4
10°	5422.4	5412.8	5384.1	5398.3	5421.1
12.5°	4580.9	4549.7	4549.0	4594.0	4587.9
15°	3470.0	3428.3	3451.4	3440.1	3434.0
17.5°	2333.5	2317.4	2348.2	2339.0	2298.8
20°	1678.6	1682.8	1741.6	1712.0	1676.3
22.5°	1224.9	1240.0	1309.7	1233.6	1205.6
25°	815.5	846.4	919.6	824.8	798.8
27.5°	501.6	515.7	590.0	495.1	481.0
30°	312.0	304.9	340.0	291.7	271.9
32.5°	204.7	195.7	206.9	185.8	169.7
35°	136.9	139.8	131.1	130.1	109.9
37.5°	85.5	98.3	86.7	92.5	70.7
40°	55.3	71.3	61.4	67.8	52.1
42.5°	45.3	54.9	50.5	53.7	46.3
45°	36.0	44.7	44.7	44.7	36.3
47.5°	19.9	29.9	38.2	30.5	21.2
50°	11.2	15.1	29.6	15.8	11.9
52.5°	7.7	8.7	20.2	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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— 0°-180° - - 45°-225° - - - - 90°-270°

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