

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: P746036

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746036
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-EU4DR3020359050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2501.2 lumens
Efficiency: N/A
Efficacy: 86.2 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



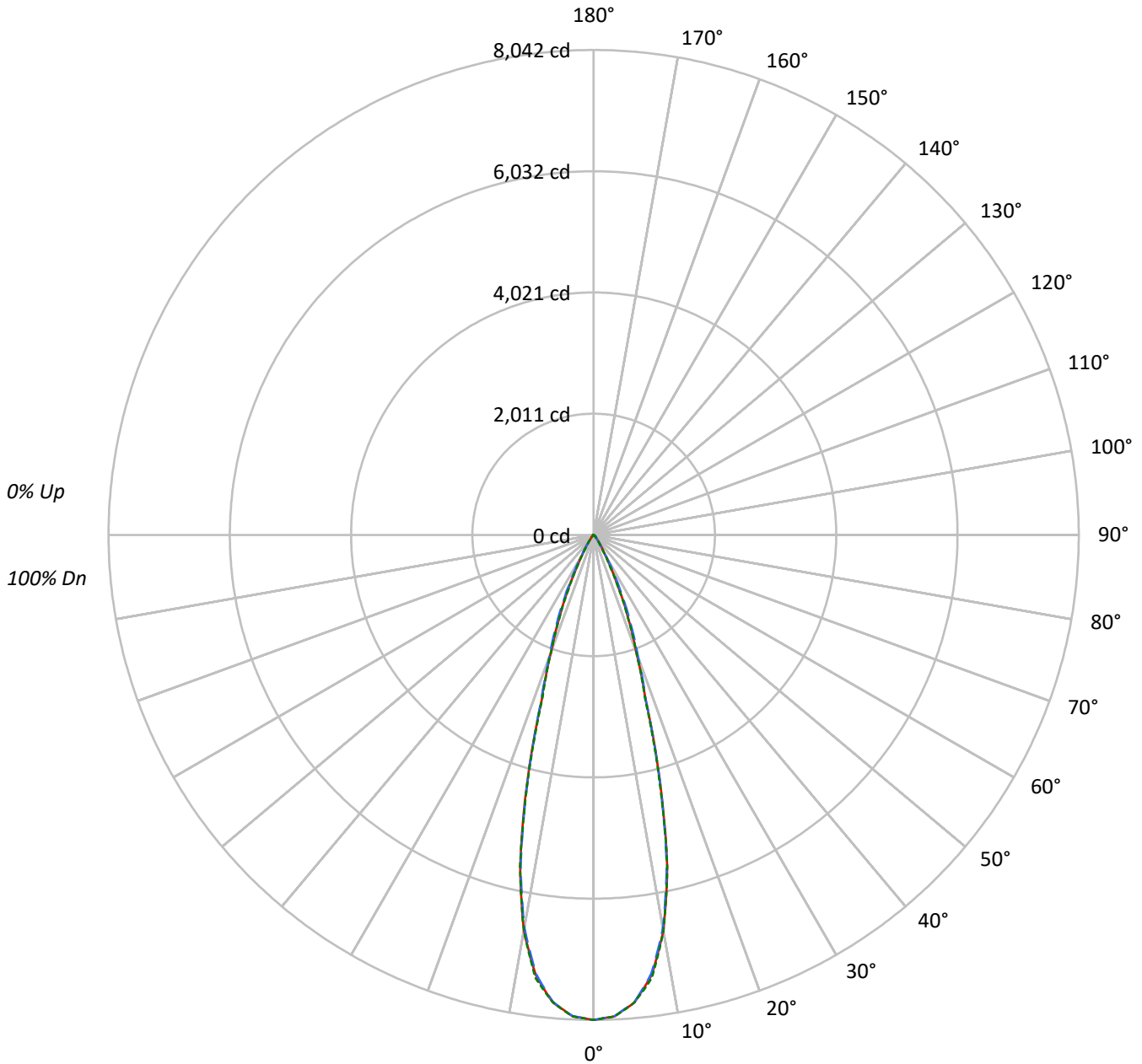
Downlight



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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°	615600	615600	615600
5°	597921	597229	597951
10°	517892	514239	517768
15°	337902	336088	334392
20°	168019	174324	167799
25°	84634	95444	82902
30°	33887	36918	29520
35°	15717	15054	12615
40°	6785	7534	6385
45°	4785	5943	4828
50°	1643	4323	1739
55°	947	1788	1001
60°	674	796	674
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5943 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.2	28.3
10°-20°	1139.0	45.5
20°-30°	492.2	19.7
30°-40°	112.2	4.5
40°-50°	38.5	1.5
50°-60°	9.4	0.4
60°-70°	2.4	0.1
70°-80°	0.3	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°	2338.4	93.5
0°-40°	2450.5	98.0
0°-60°	2498.5	99.9
0°-90°	2501.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8042	8042	8042	8042	8042	
5°	7782	7774	7773	7789	7782	708
15°	4264	4213	4241	4227	4220	1142
25°	1002	1040	1130	1014	982	480
35°	168	172	161	160	135	114
45°	44	55	55	55	45	31
55°	7	8	13	8	8	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8042.5	8042.5	8042.5	8042.5	8042.5
2.5°	7989.1	7983.6	7986.8	7990.7	7992.3
5°	7781.8	7774.3	7772.8	7788.9	7782.2
7.5°	7363.7	7353.0	7336.8	7373.5	7407.9
10°	6663.2	6651.4	6616.2	6633.6	6661.6
12.5°	5629.1	5590.8	5590.0	5645.3	5637.8
15°	4264.1	4212.7	4241.2	4227.3	4219.8
17.5°	2867.4	2847.7	2885.6	2874.2	2824.8
20°	2062.7	2067.8	2140.1	2103.8	2060.0
22.5°	1505.2	1523.8	1609.4	1515.9	1481.5
25°	1002.1	1040.1	1130.1	1013.6	981.6
27.5°	616.4	633.7	725.0	608.5	591.1
30°	383.4	374.7	417.7	358.6	334.0
32.5°	251.5	240.5	254.3	228.2	208.5
35°	168.2	171.8	161.1	159.9	135.0
37.5°	105.0	120.8	106.6	113.7	86.9
40°	67.9	87.7	75.4	83.3	63.9
42.5°	55.7	67.5	62.0	65.9	56.8
45°	44.2	54.9	54.9	54.9	44.6
47.5°	24.5	36.7	47.0	37.5	26.1
50°	13.8	18.6	36.3	19.4	14.6
52.5°	9.5	10.7	24.9	11.1	9.9
55°	7.1	7.5	13.4	7.9	7.5
57.5°	5.5	5.9	7.1	5.9	5.5
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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