

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: P745997

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745997
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-EU4DR3020359030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 80.4 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



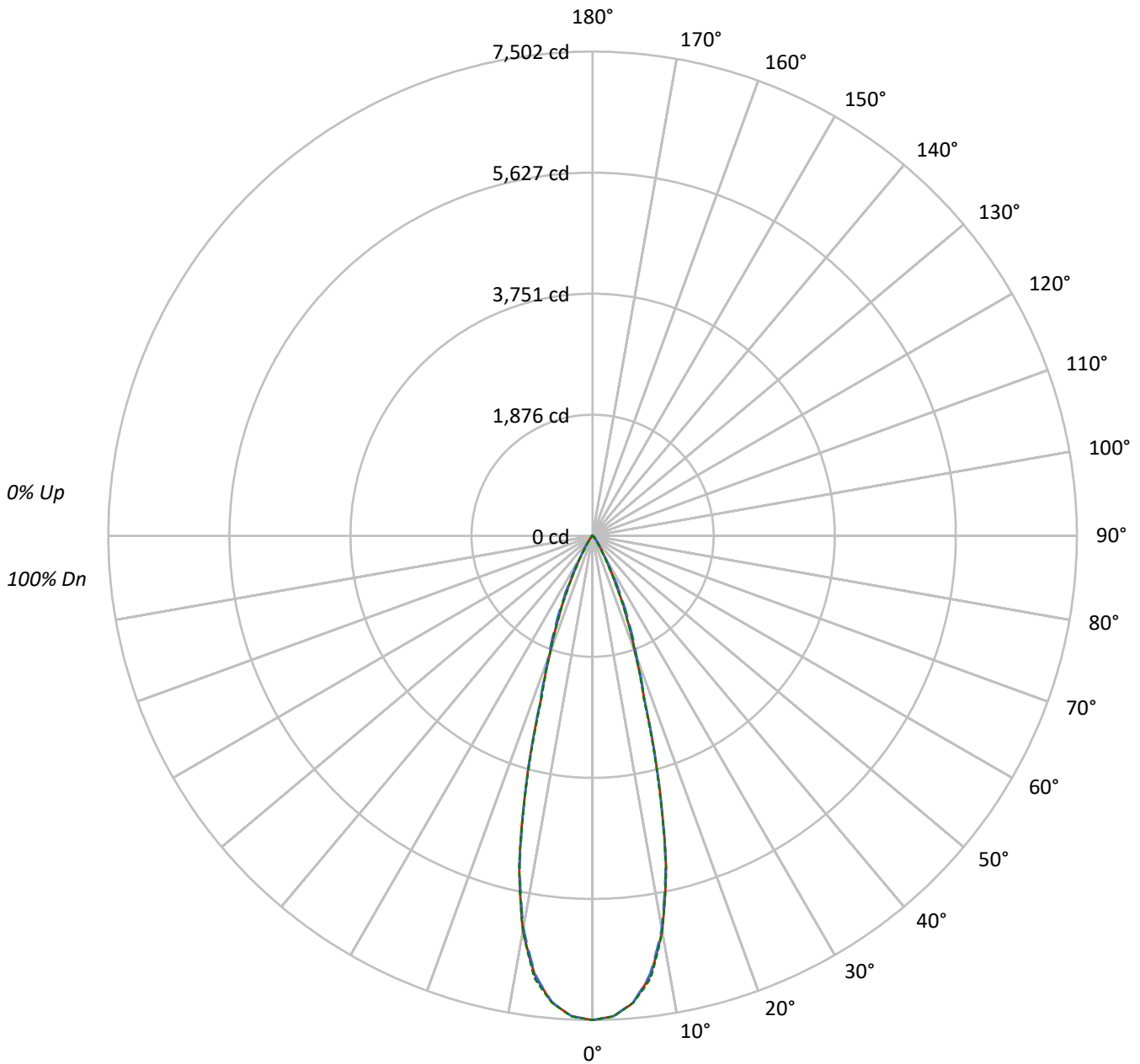
Downlight



TEST NUMBER: P745997

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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°	574213	574213	574213
5°	557728	557075	557759
10°	483079	479667	482963
15°	315183	313495	311918
20°	156729	162610	156517
25°	78950	89025	77328
30°	31606	34444	27541
35°	14661	14044	11764
40°	6335	7034	5955
45°	4471	5542	4503
50°	1536	4037	1619
55°	881	1668	934
60°	628	735	628
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5542 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.7	28.3
10°-20°	1062.4	45.5
20°-30°	459.1	19.7
30°-40°	104.6	4.5
40°-50°	35.9	1.5
50°-60°	8.8	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°	2181.2	93.5
0°-40°	2285.8	98.0
0°-60°	2330.5	99.9
0°-90°	2333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7502	7502	7502	7502	7502	
5°	7259	7252	7250	7265	7259	660
15°	3977	3930	3956	3943	3936	1065
25°	935	970	1054	946	916	447
35°	157	160	150	149	126	106
45°	41	51	51	51	42	29
55°	7	7	12	7	7	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°	7501.8	7501.8	7501.8	7501.8	7501.8
2.5°	7452.0	7446.9	7449.9	7453.5	7455.0
5°	7258.7	7251.7	7250.2	7265.3	7259.1
7.5°	6868.6	6858.7	6843.6	6877.9	6909.9
10°	6215.3	6204.2	6171.4	6187.6	6213.8
12.5°	5250.6	5214.9	5214.2	5265.8	5258.8
15°	3977.4	3929.5	3956.1	3943.2	3936.2
17.5°	2674.7	2656.3	2691.6	2681.0	2634.9
20°	1924.1	1928.8	1996.3	1962.4	1921.5
22.5°	1404.0	1421.3	1501.2	1413.9	1381.9
25°	934.8	970.1	1054.1	945.5	915.6
27.5°	575.0	591.1	676.2	567.6	551.4
30°	357.6	349.5	389.7	334.4	311.6
32.5°	234.6	224.3	237.2	212.9	194.5
35°	156.9	160.2	150.3	149.1	125.9
37.5°	98.0	112.7	99.5	106.1	81.0
40°	63.4	81.8	70.4	77.7	59.6
42.5°	51.9	63.0	57.8	61.5	53.1
45°	41.3	51.2	51.2	51.2	41.6
47.5°	22.9	34.3	43.8	35.0	24.3
50°	12.9	17.3	33.9	18.0	13.6
52.5°	8.8	10.0	23.2	10.3	9.2
55°	6.6	7.0	12.5	7.4	7.0
57.5°	5.2	5.5	6.6	5.5	5.2
60°	4.1	4.1	4.8	4.4	4.1
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
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	0.3	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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