

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: P744099

Luminaire Tested: LD4D20D010-EU4DR3020359024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744099
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: LD4D20D010-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: 1401.4 lumens
Efficiency: N/A
Efficacy: 60.7 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): 23.1
Input Voltage (V): NR
Input Current (Ain): 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



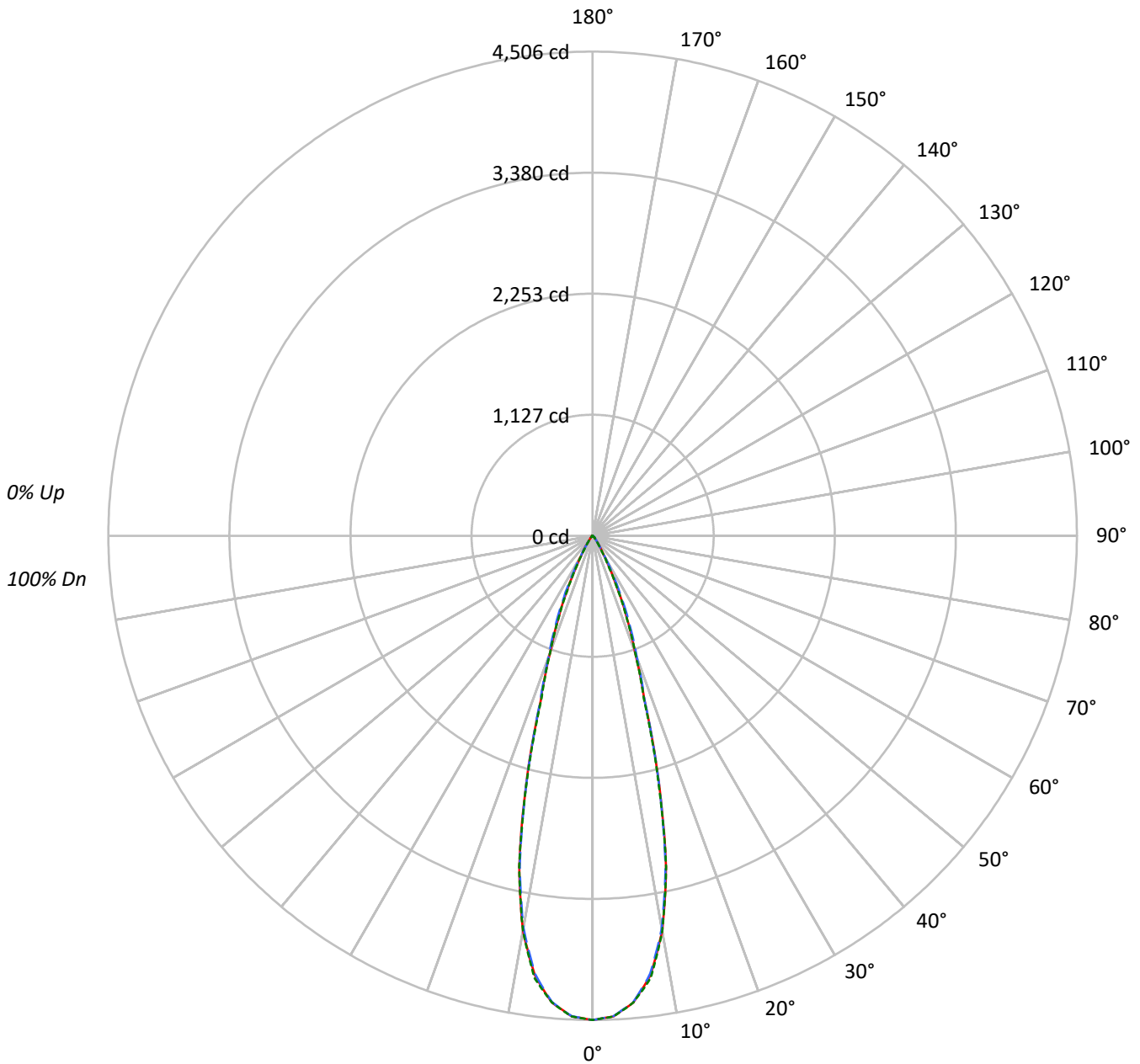
Downlight



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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°	344920	344920	344920
5°	335019	334628	335035
10°	290176	288124	290106
15°	189321	188306	187363
20°	94147	97674	94016
25°	47422	53478	46451
30°	18985	20691	16546
35°	8812	8428	7074
40°	3797	4227	3587
45°	2685	3334	2706
50°	917	2417	976
55°	534	1001	560
60°	367	444	367
65°	235	235	235
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3334 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.3	28.3
10°-20°	638.2	45.5
20°-30°	275.8	19.7
30°-40°	62.9	4.5
40°-50°	21.6	1.5
50°-60°	5.3	0.4
60°-70°	1.4	0.1
70°-80°	0.1	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°	1310.2	93.5
0°-40°	1373.0	98.0
0°-60°	1399.9	99.9
0°-90°	1401.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4506	4506	4506	4506	4506	
5°	4360	4356	4355	4364	4360	397
15°	2389	2360	2376	2369	2364	640
25°	562	583	633	568	550	269
35°	94	96	90	90	76	64
45°	25	31	31	31	25	18
55°	4	4	8	4	4	4
65°	1	1	1	1	1	1
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°	4506.2	4506.2	4506.2	4506.2	4506.2
2.5°	4476.3	4473.2	4475.0	4477.2	4478.1
5°	4360.2	4356.0	4355.1	4364.2	4360.4
7.5°	4125.9	4119.9	4110.8	4131.4	4150.6
10°	3733.4	3726.8	3707.0	3716.8	3732.5
12.5°	3154.0	3132.5	3132.1	3163.0	3158.8
15°	2389.1	2360.4	2376.3	2368.6	2364.4
17.5°	1606.6	1595.6	1616.8	1610.4	1582.7
20°	1155.8	1158.6	1199.1	1178.7	1154.2
22.5°	843.4	853.8	901.8	849.3	830.1
25°	561.5	582.7	633.2	567.9	550.0
27.5°	345.4	355.1	406.2	340.9	331.2
30°	214.8	209.9	234.1	200.9	187.2
32.5°	140.9	134.8	142.5	127.9	116.8
35°	94.3	96.3	90.2	89.6	75.7
37.5°	58.8	67.7	59.8	63.7	48.7
40°	38.0	49.1	42.3	46.7	35.9
42.5°	31.2	37.8	34.7	37.0	31.9
45°	24.8	30.8	30.8	30.8	25.0
47.5°	13.7	20.6	26.4	21.0	14.6
50°	7.7	10.4	20.3	10.8	8.2
52.5°	5.3	6.0	13.9	6.2	5.6
55°	4.0	4.2	7.5	4.4	4.2
57.5°	3.1	3.3	4.0	3.3	3.1
60°	2.4	2.4	2.9	2.6	2.4
62.5°	1.8	1.8	2.0	1.8	1.8
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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