

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: P738879

Luminaire Tested: LD4D02D010-EU4DR150210IC9040-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR150210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 369.8 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 5.1
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

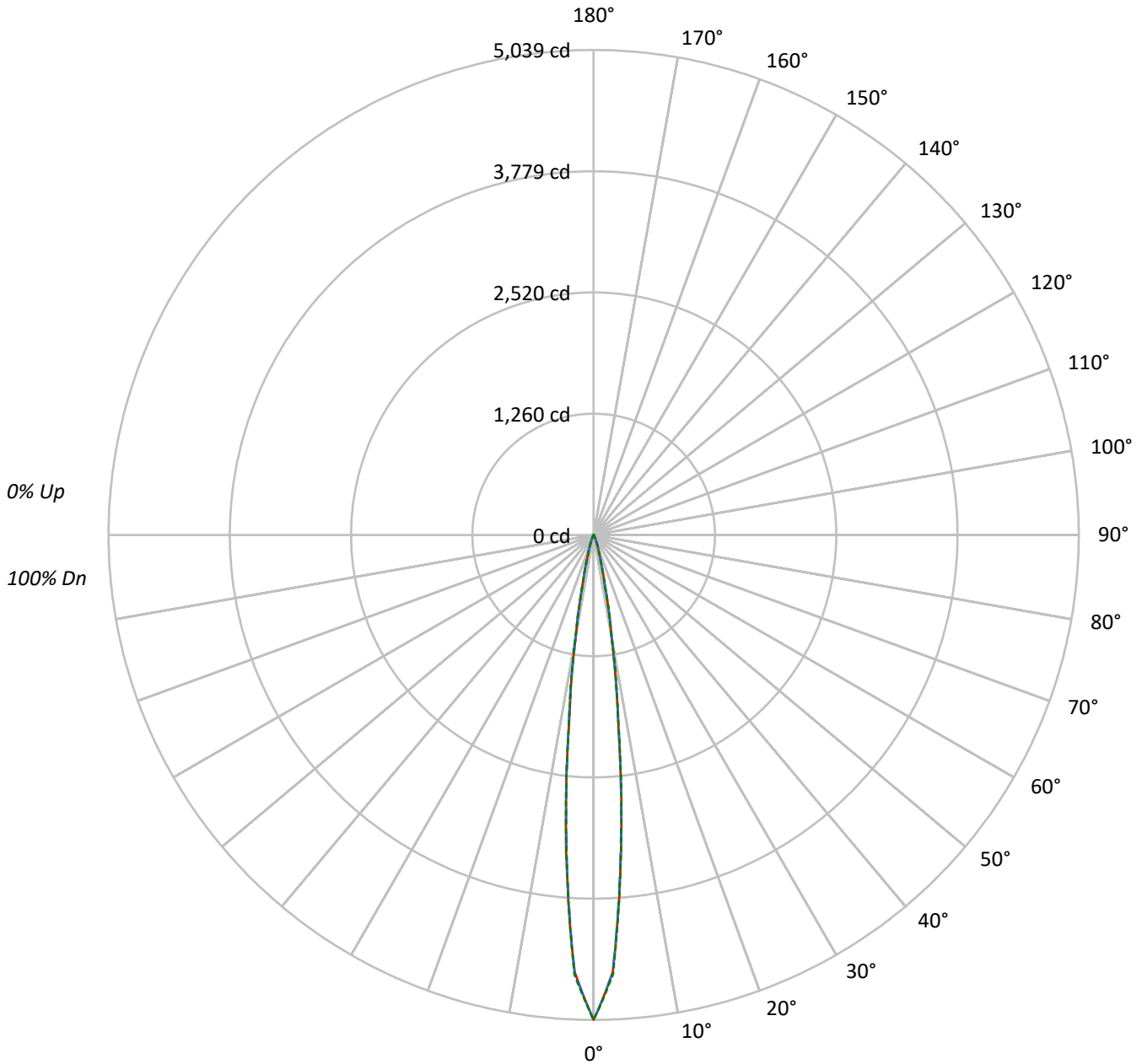


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	99	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	566999	566999	566999
5°	333190	328881	331483
10°	99447	100138	101668
15°	24737	25215	24442
20°	7397	8567	7560
25°	2610	3326	2641
30°	958	1265	973
35°	479	545	465
40°	305	334	305
45°	224	238	224
50°	181	181	181
55°	146	146	146
60°	119	119	119
65°	93	93	93
70°	80	80	80
75°	45	45	68
80°	32	32	32
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	64.9
10°-20°	98.7	26.7
20°-30°	19.6	5.3
30°-40°	4.9	1.3
40°-50°	2.6	0.7
50°-60°	1.9	0.5
60°-70°	1.4	0.4
70°-80°	0.8	0.2
80°-90°	0.2	0.1
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°	358.1	96.8
0°-40°	363.0	98.2
0°-60°	367.5	99.4
0°-90°	369.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	369.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5039	5039	5039	5039	5039	
5°	3278	3245	3236	3258	3262	239
15°	285	290	290	285	281	98
25°	34	38	43	38	34	18
35°	7	7	8	7	6	4
45°	3	3	3	3	3	3
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	1
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°	5039.1	5039.1	5039.1	5039.1	5039.1
2.5°	4545.5	4549.3	4550.8	4555.3	4571.9
5°	3278.5	3244.8	3236.1	3258.5	3261.7
7.5°	1942.1	1948.9	1973.9	1979.4	1959.4
10°	1065.8	1074.5	1073.2	1080.9	1089.6
12.5°	545.0	538.2	536.1	544.8	532.7
15°	284.8	290.1	290.3	285.2	281.4
17.5°	153.2	159.4	169.6	161.3	148.5
20°	90.4	96.0	104.7	97.9	92.4
22.5°	55.9	60.4	66.6	61.2	56.7
25°	33.5	38.0	42.7	37.8	33.9
27.5°	19.8	23.7	26.7	23.5	19.6
30°	12.8	14.9	16.9	14.7	13.0
32.5°	9.0	9.8	10.7	9.8	9.0
35°	6.6	7.0	7.5	7.0	6.4
37.5°	5.1	5.5	5.8	5.3	4.9
40°	4.3	4.5	4.7	4.5	4.3
42.5°	3.6	3.8	3.8	3.8	3.6
45°	3.2	3.2	3.4	3.2	3.2
47.5°	2.8	2.8	3.0	2.8	2.8
50°	2.6	2.6	2.6	2.6	2.6
52.5°	2.3	2.3	2.3	2.3	2.3
55°	2.1	2.1	2.1	2.1	2.1
57.5°	1.9	1.9	1.9	1.9	1.9
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3
70°	1.1	1.1	1.1	1.1	1.1
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.6	0.6	0.6	0.6	0.9
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2
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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