

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: P744805

Luminaire Tested: LD4D25D010-EU4DR1515309024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744805
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: LD4D25D010-EU4DR1515309024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2099.5 lumens
Efficiency: N/A
Efficacy: 83.6 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): 25.1
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

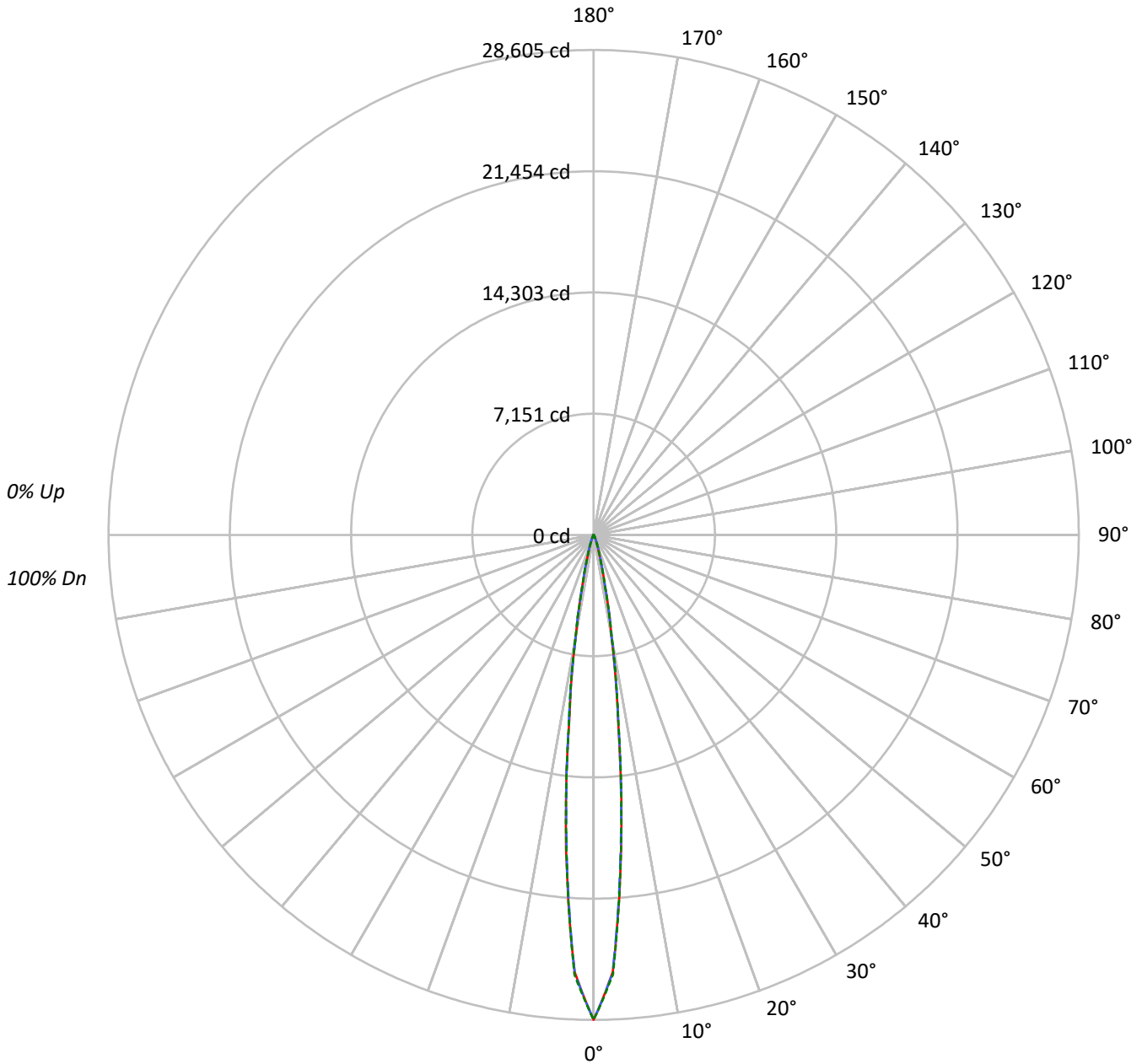


Downlight



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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	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	98	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	98	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°	3218678	3218678	3218678
5°	1891446	1866953	1881720
10°	564511	568467	577163
15°	140413	143149	138736
20°	42008	48652	42900
25°	14809	18868	14996
30°	5444	7166	5534
35°	2723	3079	2636
40°	1719	1889	1719
45°	1274	1358	1274
50°	1008	1008	1008
55°	842	842	842
60°	681	681	681
65°	521	521	521
70°	446	446	446
75°	272	272	363
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1358 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1361.7	64.9
10°-20°	560.1	26.7
20°-30°	111.2	5.3
30°-40°	27.8	1.3
40°-50°	14.6	0.7
50°-60°	10.8	0.5
60°-70°	7.7	0.4
70°-80°	4.3	0.2
80°-90°	1.3	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°	2033.0	96.8
0°-40°	2060.8	98.2
0°-60°	2086.2	99.4
0°-90°	2099.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28605	28605	28605	28605	28605	
5°	18611	18420	18370	18498	18516	1359
15°	1617	1647	1648	1619	1597	554
25°	190	216	242	214	192	100
35°	38	40	42	40	36	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28605.4	28605.4	28605.4	28605.4	28605.4
2.5°	25803.2	25825.0	25833.5	25858.9	25953.4
5°	18611.3	18420.0	18370.3	18497.5	18515.6
7.5°	11024.6	11063.4	11205.0	11236.5	11122.7
10°	6050.0	6099.6	6092.4	6136.0	6185.6
12.5°	3094.0	3055.3	3043.2	3092.8	3023.8
15°	1616.6	1646.9	1648.1	1619.1	1597.3
17.5°	869.5	904.6	962.7	915.5	842.8
20°	513.4	544.9	594.6	555.8	524.3
22.5°	317.3	342.7	377.8	347.5	322.1
25°	190.1	215.6	242.2	214.3	192.5
27.5°	112.6	134.4	151.4	133.2	111.4
30°	72.7	84.8	95.7	83.6	73.9
32.5°	50.9	55.7	60.5	55.7	50.9
35°	37.5	40.0	42.4	40.0	36.3
37.5°	29.1	31.5	32.7	30.3	27.9
40°	24.2	25.4	26.6	25.4	24.2
42.5°	20.6	21.8	21.8	21.8	20.6
45°	18.2	18.2	19.4	18.2	18.2
47.5°	15.7	15.7	17.0	15.7	15.7
50°	14.5	14.5	14.5	14.5	14.5
52.5°	13.3	13.3	13.3	13.3	13.3
55°	12.1	12.1	12.1	12.1	12.1
57.5°	10.9	10.9	10.9	10.9	10.9
60°	9.7	9.7	9.7	9.7	9.7
62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.3	7.3	7.3	7.3	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	6.1	6.1	6.1	6.1	6.1
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.6	3.6	3.6	3.6	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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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