

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: P741869

Luminaire Tested: LD4D10D010-EU4DR150210IC9024-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741869
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: LD4D10D010-EU4DR150210IC9024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 852.9 lumens
Efficiency: N/A
Efficacy: 72.9 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): 11.7
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

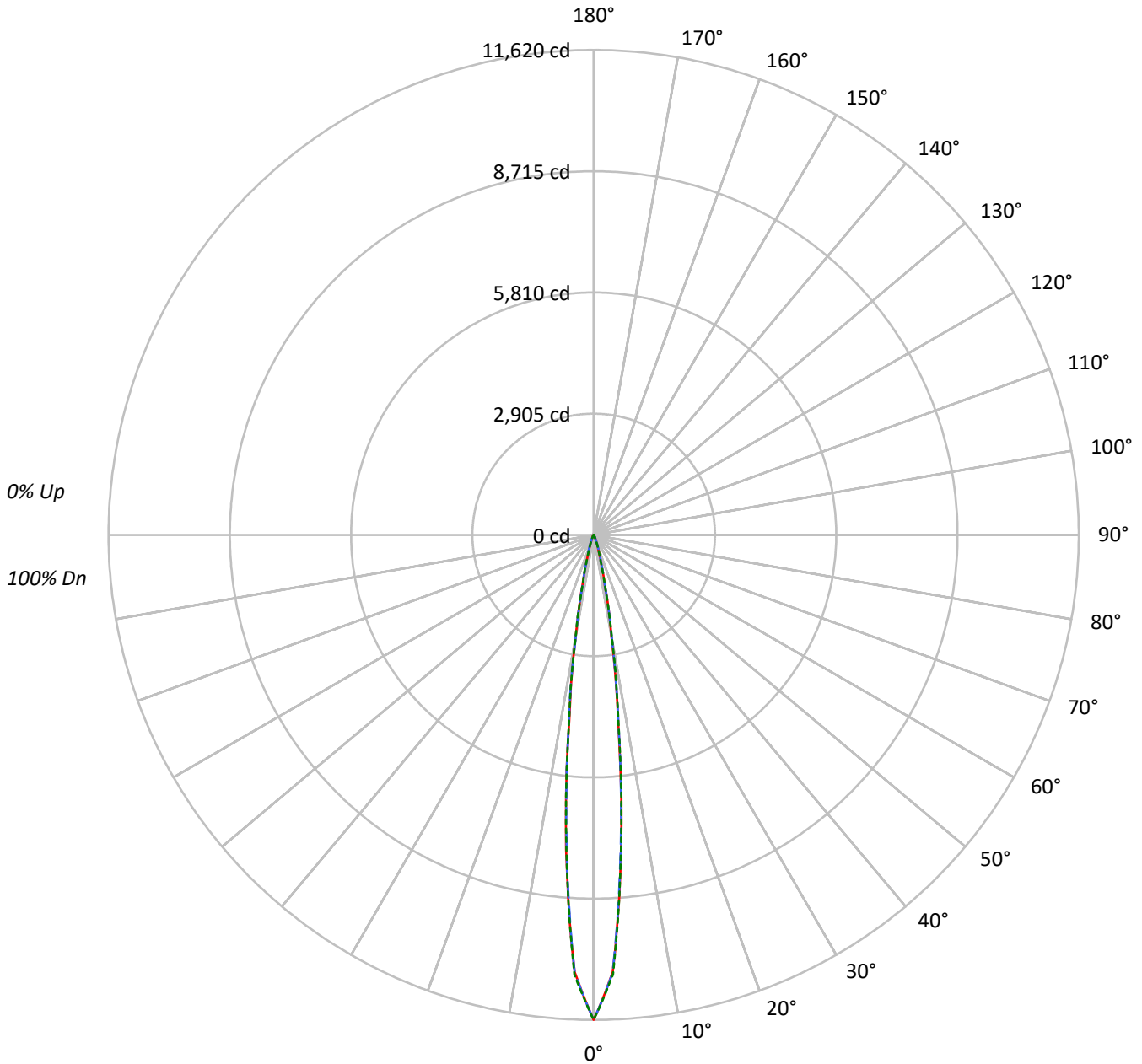


Downlight



TEST NUMBER: P741869
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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	87	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°	1307504	1307504	1307504
5°	768355	758406	764402
10°	229313	230927	234454
15°	57039	58151	56353
20°	17068	19760	17428
25°	6014	7665	6092
30°	2209	2913	2246
35°	1104	1249	1075
40°	696	767	696
45°	518	553	518
50°	410	410	410
55°	341	341	341
60°	274	274	274
65°	214	214	214
70°	183	183	183
75°	113	113	151
80°	79	79	79
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.1	64.9
10°-20°	227.5	26.7
20°-30°	45.2	5.3
30°-40°	11.3	1.3
40°-50°	5.9	0.7
50°-60°	4.4	0.5
60°-70°	3.1	0.4
70°-80°	1.8	0.2
80°-90°	0.5	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°	825.9	96.8
0°-40°	837.1	98.1
0°-60°	847.5	99.4
0°-90°	852.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11620	11620	11620	11620	11620	
5°	7560	7483	7462	7514	7522	552
15°	657	669	670	658	649	225
25°	77	88	98	87	78	41
35°	15	16	17	16	15	10
45°	7	7	8	7	7	6
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11620.2	11620.2	11620.2	11620.2	11620.2
2.5°	10481.9	10490.7	10494.2	10504.5	10542.9
5°	7560.4	7482.6	7462.5	7514.1	7521.5
7.5°	4478.5	4494.2	4551.8	4564.5	4518.3
10°	2457.6	2477.8	2474.9	2492.6	2512.7
12.5°	1256.9	1241.1	1236.2	1256.4	1228.3
15°	656.7	669.0	669.5	657.7	648.8
17.5°	353.2	367.5	391.1	371.9	342.4
20°	208.6	221.4	241.5	225.8	213.0
22.5°	128.9	139.2	153.5	141.2	130.9
25°	77.2	87.6	98.4	87.1	78.2
27.5°	45.7	54.6	61.5	54.1	45.3
30°	29.5	34.4	38.9	33.9	30.0
32.5°	20.7	22.6	24.6	22.6	20.7
35°	15.2	16.2	17.2	16.2	14.8
37.5°	11.8	12.8	13.3	12.3	11.3
40°	9.8	10.3	10.8	10.3	9.8
42.5°	8.4	8.9	8.9	8.9	8.4
45°	7.4	7.4	7.9	7.4	7.4
47.5°	6.4	6.4	6.9	6.4	6.4
50°	5.9	5.9	5.9	5.9	5.9
52.5°	5.4	5.4	5.4	5.4	5.4
55°	4.9	4.9	4.9	4.9	4.9
57.5°	4.4	4.4	4.4	4.4	4.4
60°	3.9	3.9	3.9	3.9	3.9
62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.0	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5
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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