

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: P739851

Luminaire Tested: LD4D05D010-EU4DR150210IC9027-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739851
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: LD4D05D010-EU4DR150210IC9027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 580.8 lumens
Efficiency: N/A
Efficacy: 77.4 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): 7.5
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



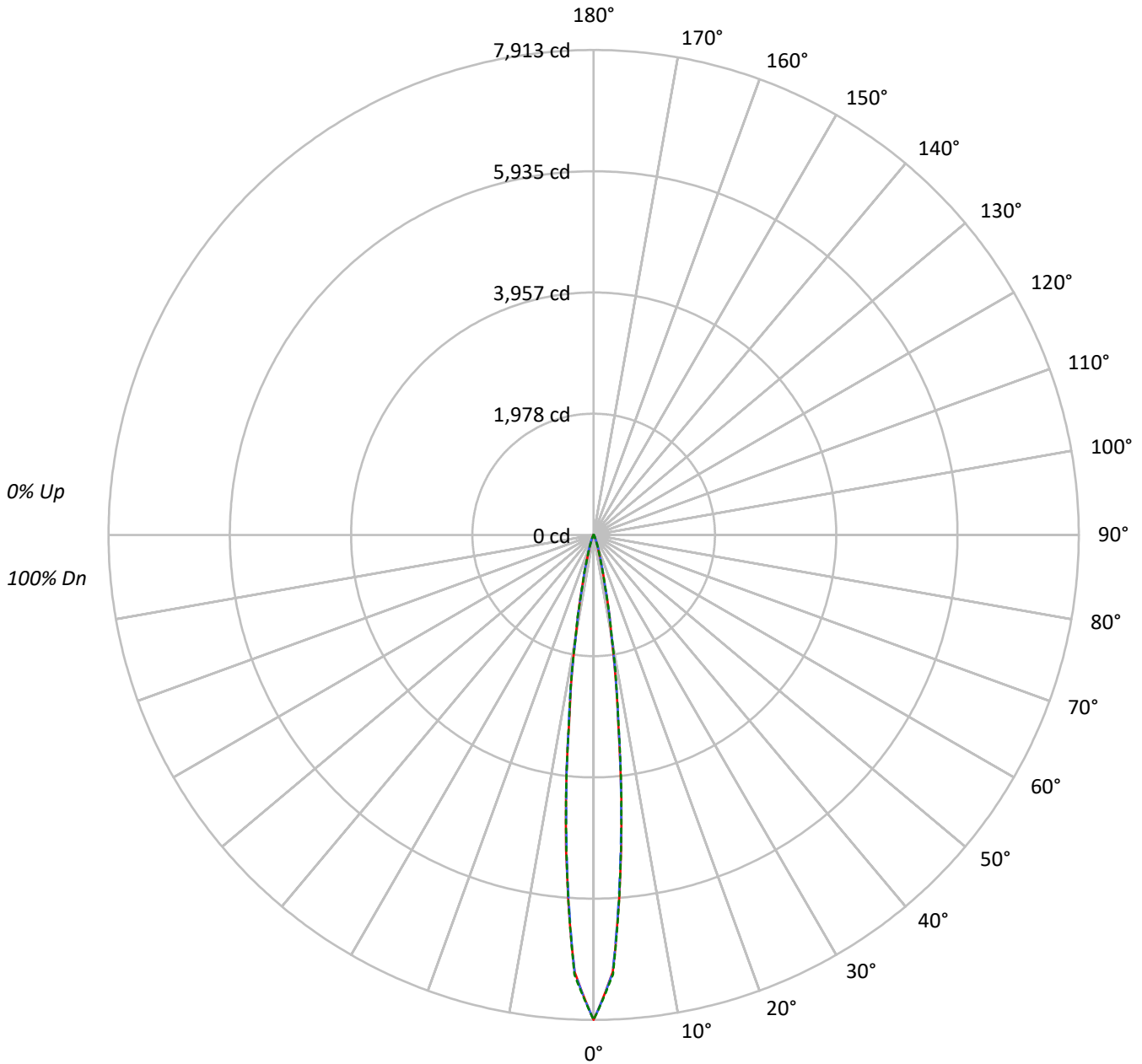
Downlight



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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	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°	890393	890393	890393
5°	523236	516458	520543
10°	156160	157251	159659
15°	38842	39598	38382
20°	11619	13460	11872
25°	4098	5219	4152
30°	1505	1984	1528
35°	755	850	726
40°	476	526	476
45°	350	378	350
50°	278	278	278
55°	230	230	230
60°	190	190	190
65°	143	143	143
70°	124	124	124
75°	76	76	98
80°	55	55	55
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 378 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	64.9
10°-20°	154.9	26.7
20°-30°	30.8	5.3
30°-40°	7.7	1.3
40°-50°	4.0	0.7
50°-60°	3.0	0.5
60°-70°	2.1	0.4
70°-80°	1.2	0.2
80°-90°	0.4	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°	562.4	96.8
0°-40°	570.1	98.2
0°-60°	577.1	99.4
0°-90°	580.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7913	7913	7913	7913	7913	
5°	5148	5096	5082	5117	5122	376
15°	447	456	456	448	442	153
25°	53	60	67	59	53	28
35°	10	11	12	11	10	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
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°	7913.2	7913.2	7913.2	7913.2	7913.2
2.5°	7138.0	7144.0	7146.4	7153.4	7179.6
5°	5148.5	5095.6	5081.8	5117.0	5122.0
7.5°	3049.8	3060.5	3099.7	3108.4	3076.9
10°	1673.6	1687.4	1685.3	1697.4	1711.1
12.5°	855.9	845.2	841.8	855.6	836.5
15°	447.2	455.6	455.9	447.9	441.9
17.5°	240.5	250.2	266.3	253.3	233.2
20°	142.0	150.7	164.5	153.8	145.1
22.5°	87.8	94.8	104.5	96.1	89.1
25°	52.6	59.6	67.0	59.3	53.3
27.5°	31.2	37.2	41.9	36.8	30.8
30°	20.1	23.4	26.5	23.1	20.4
32.5°	14.1	15.4	16.7	15.4	14.1
35°	10.4	11.1	11.7	11.1	10.0
37.5°	8.0	8.7	9.0	8.4	7.7
40°	6.7	7.0	7.4	7.0	6.7
42.5°	5.7	6.0	6.0	6.0	5.7
45°	5.0	5.0	5.4	5.0	5.0
47.5°	4.4	4.4	4.7	4.4	4.4
50°	4.0	4.0	4.0	4.0	4.0
52.5°	3.7	3.7	3.7	3.7	3.7
55°	3.3	3.3	3.3	3.3	3.3
57.5°	3.0	3.0	3.0	3.0	3.0
60°	2.7	2.7	2.7	2.7	2.7
62.5°	2.3	2.3	2.3	2.3	2.3
65°	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.3
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3
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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