

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: P740917

Luminaire Tested: LD4D08D010-EU4DR150210IC9050-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740917
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: LD4D08D010-EU4DR150210IC9050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 756.4 lumens
Efficiency: N/A
Efficacy: 85.0 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): 8.9
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



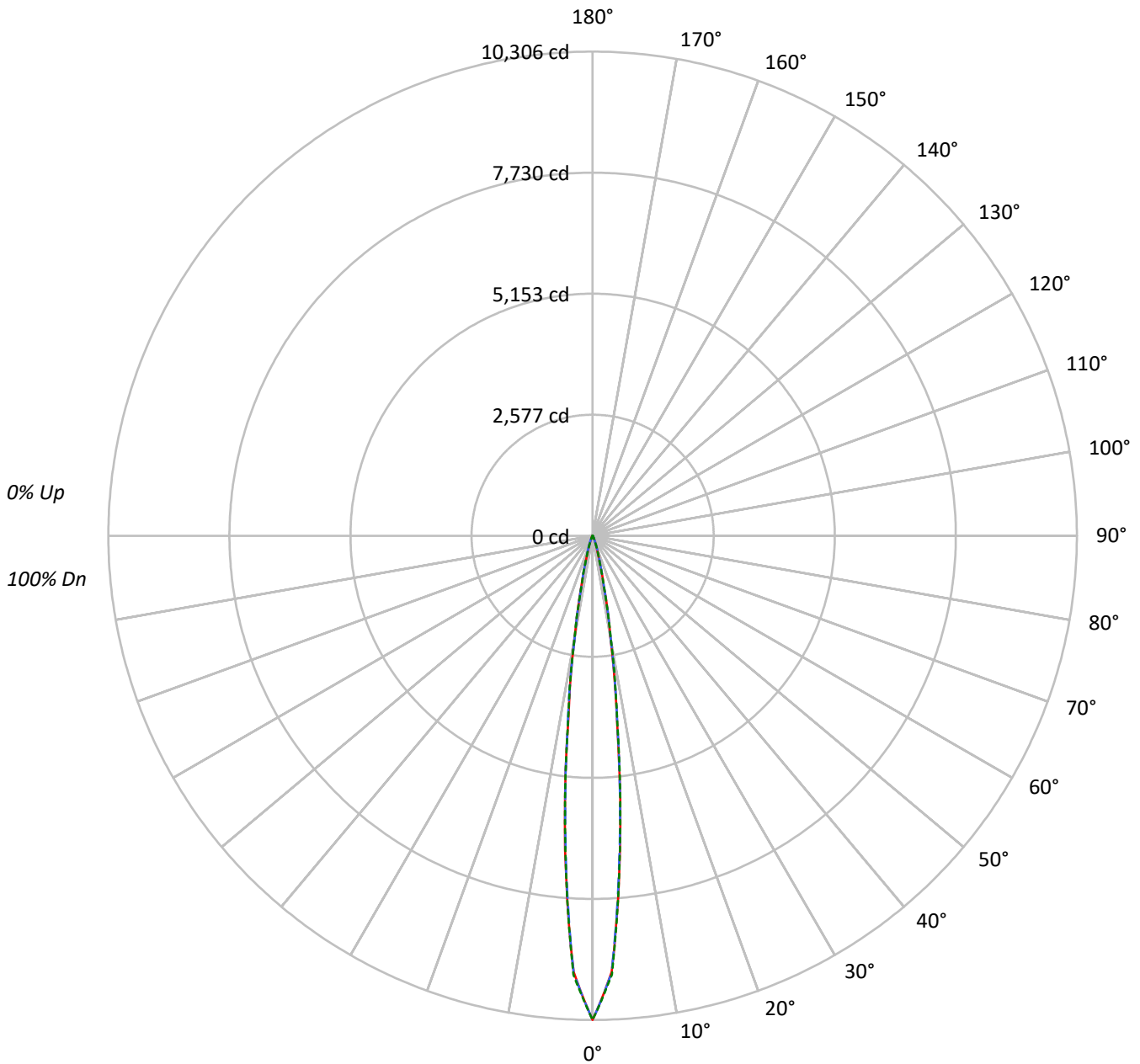
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1159574	1159574	1159574
5°	681422	672600	677926
10°	203373	204801	207936
15°	50585	51576	49977
20°	15137	17526	15456
25°	5336	6801	5406
30°	1962	2583	1992
35°	980	1111	951
40°	618	682	618
45°	455	490	455
50°	362	362	362
55°	306	306	306
60°	246	246	246
65°	186	186	186
70°	161	161	161
75°	98	98	128
80°	71	71	71
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 490 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.6	64.9
10°-20°	201.8	26.7
20°-30°	40.1	5.3
30°-40°	10.0	1.3
40°-50°	5.3	0.7
50°-60°	3.9	0.5
60°-70°	2.8	0.4
70°-80°	1.6	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°	732.4	96.8
0°-40°	742.4	98.2
0°-60°	751.6	99.4
0°-90°	756.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	756.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10306	10306	10306	10306	10306	
5°	6705	6636	6618	6664	6671	490
15°	582	593	594	583	575	200
25°	68	78	87	77	69	36
35°	14	14	15	14	13	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
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°	10305.5	10305.5	10305.5	10305.5	10305.5
2.5°	9296.0	9303.9	9306.9	9316.1	9350.1
5°	6705.0	6636.1	6618.2	6664.0	6670.6
7.5°	3971.8	3985.8	4036.8	4048.1	4007.1
10°	2179.6	2197.5	2194.9	2210.6	2228.5
12.5°	1114.7	1100.7	1096.3	1114.2	1089.4
15°	582.4	593.3	593.8	583.3	575.4
17.5°	313.2	325.9	346.8	329.8	303.6
20°	185.0	196.3	214.2	200.2	188.9
22.5°	114.3	123.5	136.1	125.2	116.0
25°	68.5	77.7	87.3	77.2	69.4
27.5°	40.6	48.4	54.5	48.0	40.1
30°	26.2	30.5	34.5	30.1	26.6
32.5°	18.3	20.1	21.8	20.1	18.3
35°	13.5	14.4	15.3	14.4	13.1
37.5°	10.5	11.3	11.8	10.9	10.0
40°	8.7	9.2	9.6	9.2	8.7
42.5°	7.4	7.9	7.9	7.9	7.4
45°	6.5	6.5	7.0	6.5	6.5
47.5°	5.7	5.7	6.1	5.7	5.7
50°	5.2	5.2	5.2	5.2	5.2
52.5°	4.8	4.8	4.8	4.8	4.8
55°	4.4	4.4	4.4	4.4	4.4
57.5°	3.9	3.9	3.9	3.9	3.9
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.7
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4
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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