

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: P738880

Luminaire Tested: LD4D02D010-EU4DR150210IC9040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738880
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-EU4DR150210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 377.3 lumens
Efficiency: N/A
Efficacy: 74.0 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): 5.1
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

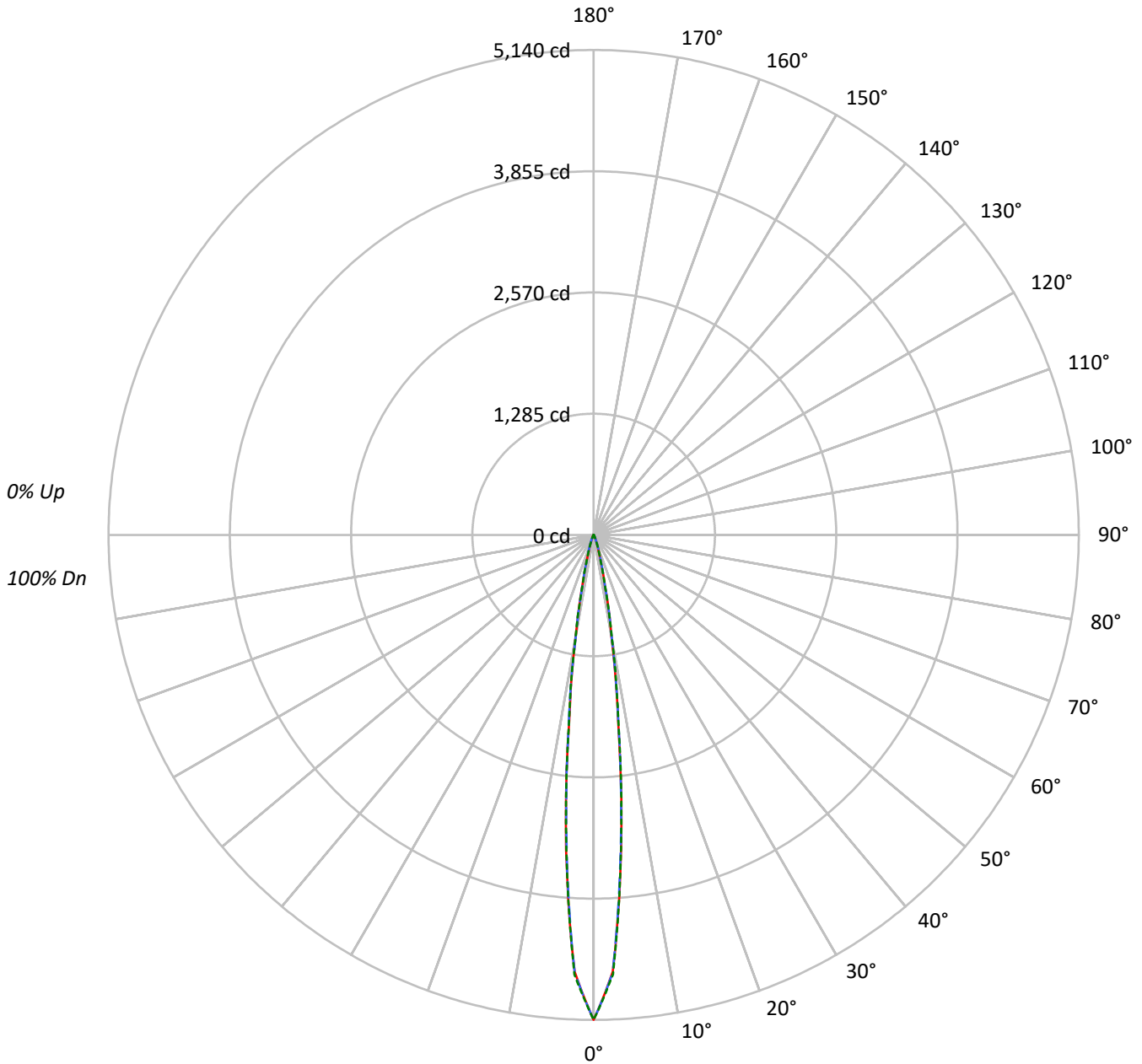


Downlight



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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					70					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	87	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°	578341	578341	578341
5°	339867	335467	338119
10°	101435	102144	103711
15°	25232	25718	24928
20°	7552	8739	7708
25°	2664	3389	2695
30°	981	1288	996
35°	487	552	472
40°	312	341	312
45°	231	245	231
50°	181	181	181
55°	153	153	153
60°	119	119	119
65°	93	93	93
70°	80	80	80
75°	53	53	68
80°	32	32	32
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 245 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	64.9
10°-20°	100.6	26.7
20°-30°	20.0	5.3
30°-40°	5.0	1.3
40°-50°	2.6	0.7
50°-60°	2.0	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°	365.3	96.8
0°-40°	370.3	98.2
0°-60°	374.9	99.4
0°-90°	377.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5140	5140	5140	5140	5140	
5°	3344	3310	3301	3324	3327	244
15°	290	296	296	291	287	100
25°	34	39	44	38	35	18
35°	7	7	8	7	6	5
45°	3	3	4	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°	5139.9	5139.9	5139.9	5139.9	5139.9
2.5°	4636.4	4640.3	4641.9	4646.4	4663.4
5°	3344.2	3309.8	3300.9	3323.7	3327.0
7.5°	1980.9	1987.9	2013.4	2019.0	1998.6
10°	1087.1	1096.0	1094.7	1102.5	1111.5
12.5°	555.9	549.0	546.8	555.7	543.3
15°	290.5	295.9	296.1	290.9	287.0
17.5°	156.2	162.5	173.0	164.5	151.4
20°	92.3	97.9	106.8	99.9	94.2
22.5°	57.0	61.6	67.9	62.4	57.9
25°	34.2	38.7	43.5	38.5	34.6
27.5°	20.2	24.2	27.2	23.9	20.0
30°	13.1	15.2	17.2	15.0	13.3
32.5°	9.1	10.0	10.9	10.0	9.1
35°	6.7	7.2	7.6	7.2	6.5
37.5°	5.2	5.7	5.9	5.4	5.0
40°	4.4	4.6	4.8	4.6	4.4
42.5°	3.7	3.9	3.9	3.9	3.7
45°	3.3	3.3	3.5	3.3	3.3
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°	2.4	2.4	2.4	2.4	2.4
55°	2.2	2.2	2.2	2.2	2.2
57.5°	2.0	2.0	2.0	2.0	2.0
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°	0.7	0.7	0.7	0.7	0.9
77.5°	0.7	0.7	0.7	0.7	0.7
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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