

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: P738830

Luminaire Tested: LD4D02D010-EU4DR150210IC9024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738830
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-EU4DR150210IC9024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 339.5 lumens
Efficiency: N/A
Efficacy: 66.6 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): 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

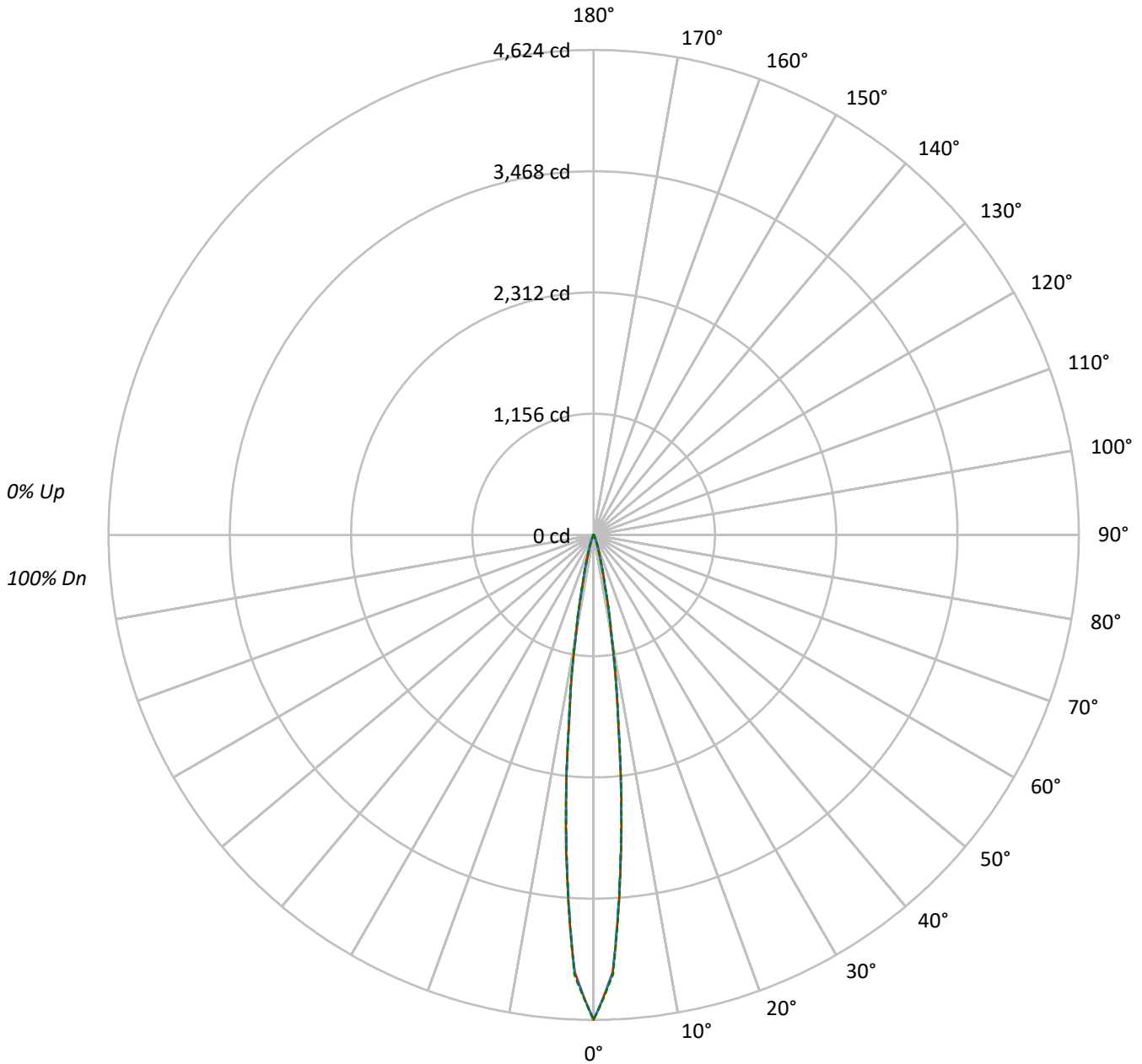


Downlight



TEST NUMBER: P738830
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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	105	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	93	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°	520326	520326	520326
5°	305771	301807	304196
10°	91255	91899	93308
15°	22696	23139	22426
20°	6791	7863	6939
25°	2392	3054	2423
30°	876	1161	891
35°	443	501	428
40°	277	305	277
45°	203	217	203
50°	160	160	160
55°	139	139	139
60°	112	112	112
65°	86	86	86
70°	73	73	73
75°	45	45	60
80°	32	32	32
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 217 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	64.8
10°-20°	90.5	26.7
20°-30°	18.0	5.3
30°-40°	4.5	1.3
40°-50°	2.3	0.7
50°-60°	1.8	0.5
60°-70°	1.3	0.4
70°-80°	0.7	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°	328.7	96.8
0°-40°	333.1	98.1
0°-60°	337.3	99.4
0°-90°	339.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	339.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4624	4624	4624	4624	4624	
5°	3009	2978	2970	2990	2993	220
15°	261	266	266	262	258	90
25°	31	35	39	35	31	16
35°	6	6	7	6	6	4
45°	3	3	3	3	3	2
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4624.3	4624.3	4624.3	4624.3	4624.3
2.5°	4171.3	4174.8	4176.2	4180.3	4195.6
5°	3008.7	2977.7	2969.7	2990.3	2993.2
7.5°	1782.2	1788.5	1811.4	1816.5	1798.1
10°	978.0	986.1	984.9	991.9	1000.0
12.5°	500.2	493.9	491.9	500.0	488.8
15°	261.3	266.2	266.4	261.7	258.2
17.5°	140.6	146.2	155.6	148.0	136.3
20°	83.0	88.1	96.1	89.9	84.8
22.5°	51.3	55.4	61.1	56.2	52.1
25°	30.7	34.8	39.2	34.6	31.1
27.5°	18.2	21.7	24.5	21.5	18.0
30°	11.7	13.7	15.5	13.5	11.9
32.5°	8.2	9.0	9.8	9.0	8.2
35°	6.1	6.5	6.9	6.5	5.9
37.5°	4.7	5.1	5.3	4.9	4.5
40°	3.9	4.1	4.3	4.1	3.9
42.5°	3.3	3.5	3.5	3.5	3.3
45°	2.9	2.9	3.1	2.9	2.9
47.5°	2.5	2.5	2.7	2.5	2.5
50°	2.3	2.3	2.3	2.3	2.3
52.5°	2.2	2.2	2.2	2.2	2.2
55°	2.0	2.0	2.0	2.0	2.0
57.5°	1.8	1.8	1.8	1.8	1.8
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.4	1.4	1.4	1.4	1.4
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.0	1.0	1.0	1.0	1.0
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.6	0.6	0.6	0.6	0.8
77.5°	0.6	0.6	0.6	0.6	0.6
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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