

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: P738878

Luminaire Tested: LD4D02D010-EU4DR150210IC9040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738878
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-EU4DR150210IC9040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 401.0 lumens
Efficiency: N/A
Efficacy: 78.6 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



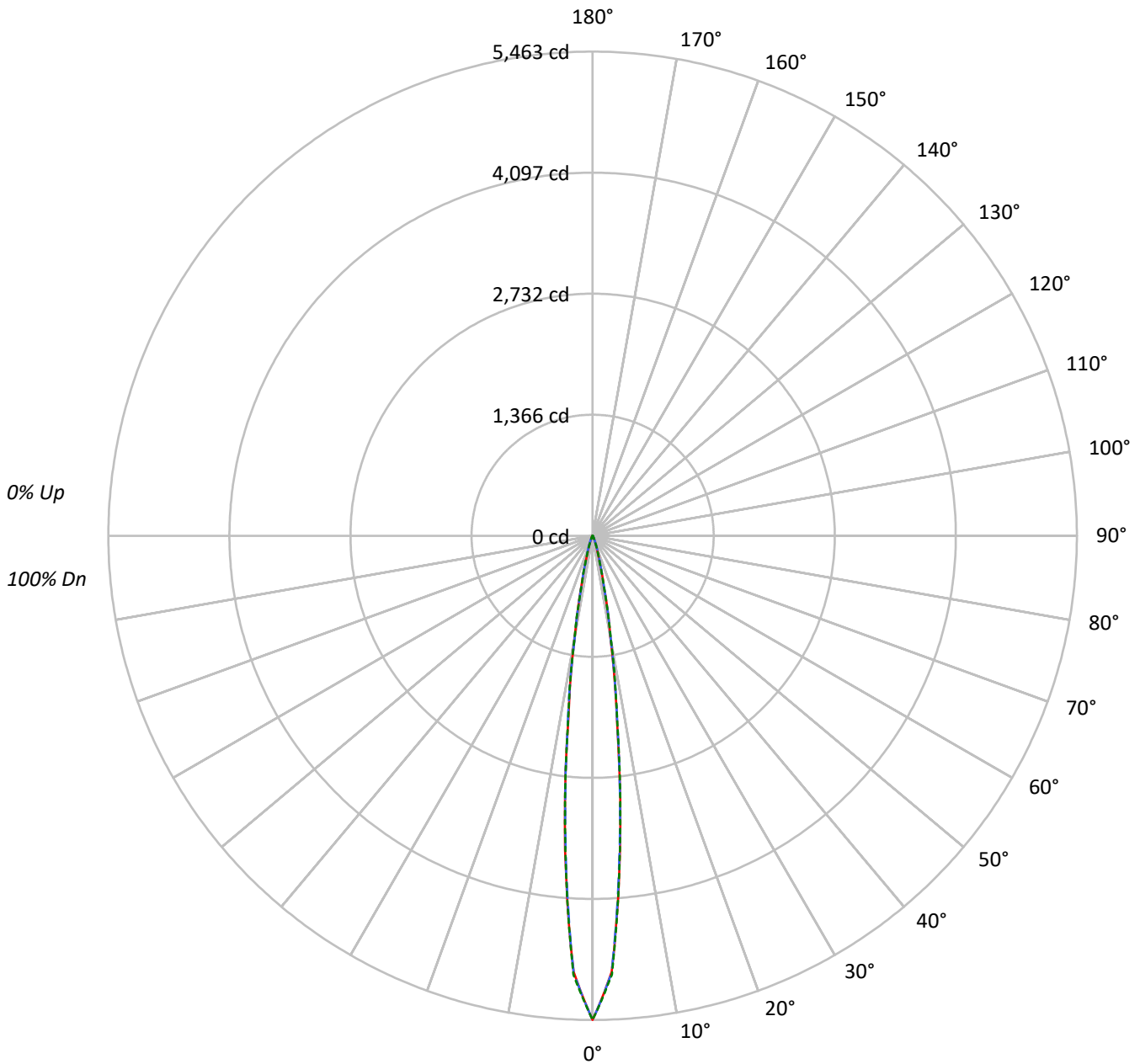
Downlight



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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°	614674	614674	614674
5°	361209	356535	359350
10°	107808	108563	110224
15°	26813	27334	26491
20°	8027	9287	8190
25°	2828	3607	2867
30°	1041	1370	1056
35°	523	588	501
40°	327	362	327
45°	245	259	245
50°	195	195	195
55°	160	160	160
60°	133	133	133
65°	100	100	100
70°	88	88	88
75°	53	53	68
80°	39	39	39
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 259 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	64.9
10°-20°	107.0	26.7
20°-30°	21.2	5.3
30°-40°	5.3	1.3
40°-50°	2.8	0.7
50°-60°	2.1	0.5
60°-70°	1.5	0.4
70°-80°	0.8	0.2
80°-90°	0.3	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°	388.2	96.8
0°-40°	393.5	98.1
0°-60°	398.4	99.4
0°-90°	401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5463	5463	5463	5463	5463	
5°	3554	3518	3508	3532	3536	260
15°	309	314	315	309	305	106
25°	36	41	46	41	37	19
35°	7	8	8	8	7	5
45°	4	4	4	4	4	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5462.8	5462.8	5462.8	5462.8	5462.8
2.5°	4927.6	4931.8	4933.4	4938.3	4956.3
5°	3554.2	3517.7	3508.2	3532.5	3535.9
7.5°	2105.4	2112.8	2139.8	2145.8	2124.1
10°	1155.4	1164.8	1163.5	1171.8	1181.3
12.5°	590.9	583.5	581.2	590.6	577.4
15°	308.7	314.5	314.7	309.2	305.0
17.5°	166.0	172.7	183.8	174.8	161.0
20°	98.1	104.1	113.5	106.1	100.1
22.5°	60.6	65.4	72.2	66.4	61.5
25°	36.3	41.2	46.3	40.9	36.8
27.5°	21.5	25.7	28.9	25.4	21.3
30°	13.9	16.2	18.3	16.0	14.1
32.5°	9.7	10.6	11.6	10.6	9.7
35°	7.2	7.6	8.1	7.6	6.9
37.5°	5.6	6.0	6.2	5.8	5.3
40°	4.6	4.9	5.1	4.9	4.6
42.5°	3.9	4.2	4.2	4.2	3.9
45°	3.5	3.5	3.7	3.5	3.5
47.5°	3.0	3.0	3.2	3.0	3.0
50°	2.8	2.8	2.8	2.8	2.8
52.5°	2.5	2.5	2.5	2.5	2.5
55°	2.3	2.3	2.3	2.3	2.3
57.5°	2.1	2.1	2.1	2.1	2.1
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.6	1.6	1.6	1.6	1.6
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.2	1.2	1.2	1.2	1.2
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°	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5
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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