

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P742921

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742921
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: LD4D15D010-EU4DR1515309035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1507.1 lumens
Efficiency: N/A
Efficacy: 95.4 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): 15.8
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

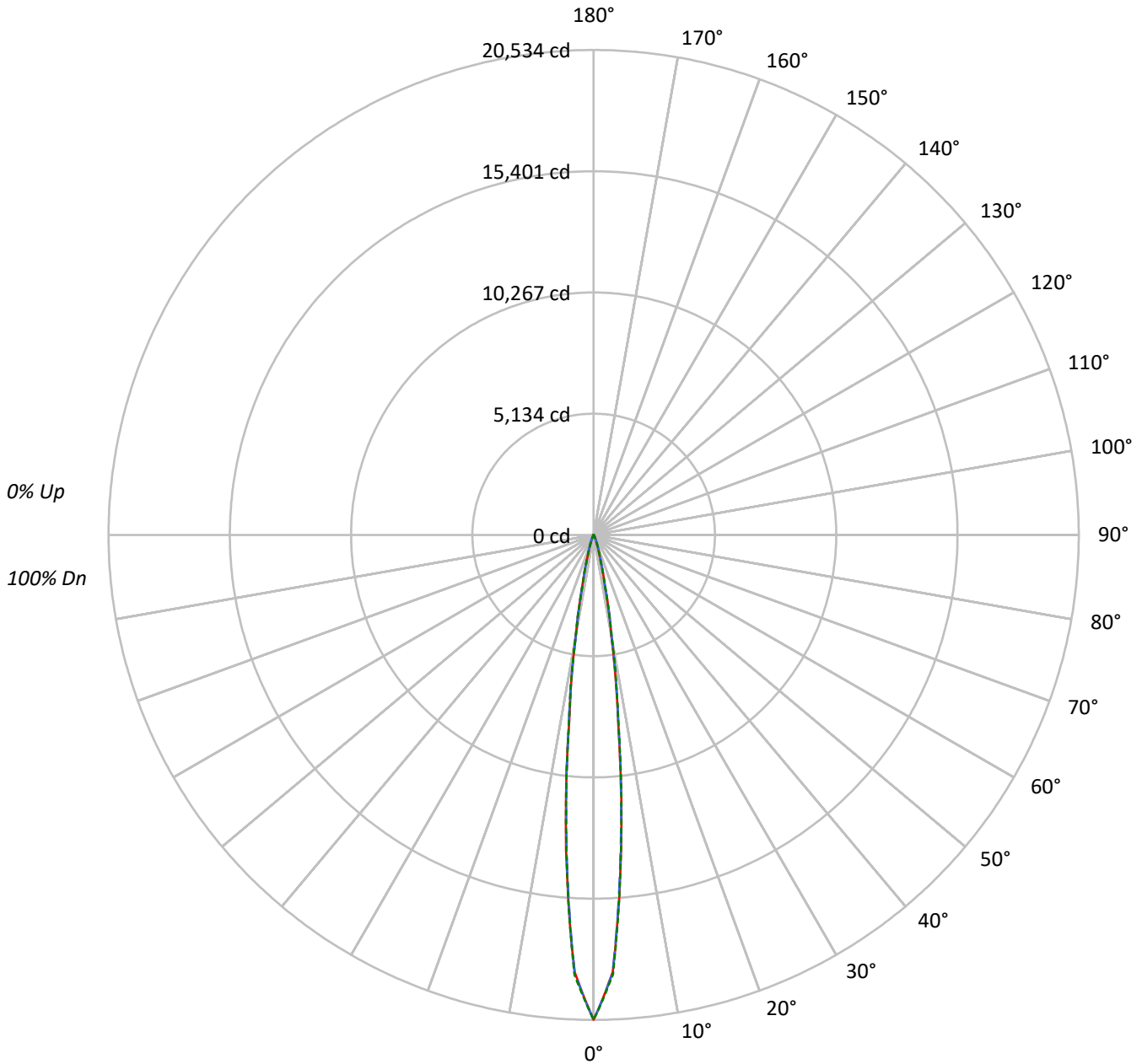


Downlight



TEST NUMBER: P742921
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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	98	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°	2310462	2310462	2310462
5°	1357732	1340150	1350750
10°	405216	408062	414304
15°	100797	102760	99590
20°	30160	34922	30798
25°	10633	13547	10766
30°	3909	5144	3969
35°	1953	2208	1895
40°	1236	1356	1236
45°	910	973	910
50°	723	723	723
55°	606	606	606
60°	491	491	491
65°	371	371	371
70°	314	314	314
75°	197	197	265
80°	134	134	134
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 973 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.4	64.9
10°-20°	402.1	26.7
20°-30°	79.9	5.3
30°-40°	19.9	1.3
40°-50°	10.5	0.7
50°-60°	7.8	0.5
60°-70°	5.5	0.4
70°-80°	3.1	0.2
80°-90°	0.9	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°	1459.4	96.8
0°-40°	1479.3	98.2
0°-60°	1497.5	99.4
0°-90°	1507.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20534	20534	20534	20534	20534	
5°	13360	13222	13187	13278	13291	976
15°	1160	1182	1183	1162	1147	398
25°	136	155	174	154	138	72
35°	27	29	30	29	26	18
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	5
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20533.8	20533.8	20533.8	20533.8	20533.8
2.5°	18522.3	18537.9	18544.0	18562.3	18630.1
5°	13359.7	13222.4	13186.7	13278.0	13291.0
7.5°	7913.8	7941.6	8043.3	8065.9	7984.2
10°	4342.8	4378.5	4373.3	4404.6	4440.2
12.5°	2221.0	2193.2	2184.5	2220.1	2170.6
15°	1160.5	1182.2	1183.1	1162.2	1146.6
17.5°	624.1	649.3	691.1	657.2	605.0
20°	368.6	391.2	426.8	399.0	376.4
22.5°	227.7	246.0	271.2	249.5	231.2
25°	136.5	154.7	173.9	153.9	138.2
27.5°	80.8	96.5	108.7	95.6	80.0
30°	52.2	60.8	68.7	60.0	53.0
32.5°	36.5	40.0	43.5	40.0	36.5
35°	26.9	28.7	30.4	28.7	26.1
37.5°	20.9	22.6	23.5	21.7	20.0
40°	17.4	18.3	19.1	18.3	17.4
42.5°	14.8	15.6	15.6	15.6	14.8
45°	13.0	13.0	13.9	13.0	13.0
47.5°	11.3	11.3	12.2	11.3	11.3
50°	10.4	10.4	10.4	10.4	10.4
52.5°	9.6	9.6	9.6	9.6	9.6
55°	8.7	8.7	8.7	8.7	8.7
57.5°	7.8	7.8	7.8	7.8	7.8
60°	7.0	7.0	7.0	7.0	7.0
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.2	5.2	5.2	5.2	5.2
67.5°	5.2	5.2	5.2	5.2	5.2
70°	4.3	4.3	4.3	4.3	4.3
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.6	2.6	2.6	2.6	3.5
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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