

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: P748132

Luminaire Tested: LD4D40BD010-EU4DR6540509040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P748132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6540509040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3853.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

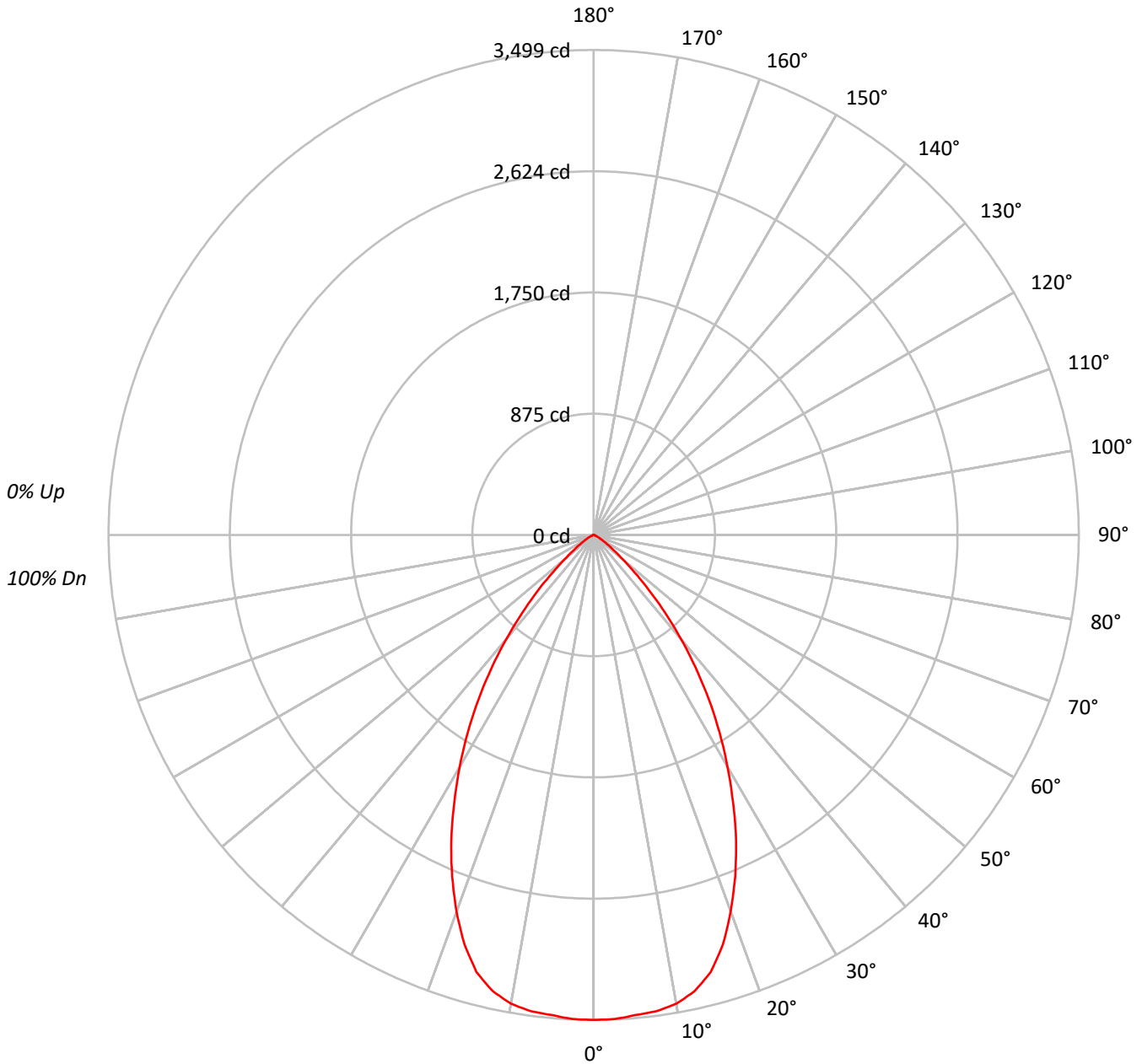
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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									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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	204367
5°	203852
10°	203677
15°	197397
20°	179707
25°	156606
30°	130252
35°	103204
40°	74487
45°	47055
50°	24532
55°	13033
60°	6845
65°	3773
70°	1588
75°	1738
80°	1211
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 47055 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.9	8.6
10°-20°	906.2	23.5
20°-30°	1107.7	28.7
30°-40°	898.7	23.3
40°-50°	447.9	11.6
50°-60°	124.9	3.2
60°-70°	28.4	0.7
70°-80°	7.4	0.2
80°-90°	1.9	0.0
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°	2344.7	60.8
0°-40°	3243.5	84.2
0°-60°	3816.2	99.0
0°-90°	3853.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3853.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3499	
5°	3477	331
15°	3265	906
25°	2430	1108
35°	1448	899
45°	570	448
55°	128	125
65°	27	28
75°	8	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3499.2
2.5°	3496.6
5°	3477.1
7.5°	3465.8
10°	3434.4
12.5°	3370.7
15°	3264.7
17.5°	3099.2
20°	2891.4
22.5°	2667.2
25°	2430.2
27.5°	2176.7
30°	1931.4
32.5°	1689.2
35°	1447.5
37.5°	1206.3
40°	977.0
42.5°	762.1
45°	569.7
47.5°	397.0
50°	270.0
52.5°	186.1
55°	128.0
57.5°	86.4
60°	58.6
62.5°	40.6
65°	27.3
67.5°	13.9
70°	9.3
72.5°	8.7
75°	7.7
77.5°	5.1
80°	3.6
82.5°	2.6
85°	1.5
87.5°	1.0
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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