

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: P747594

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR3040509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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

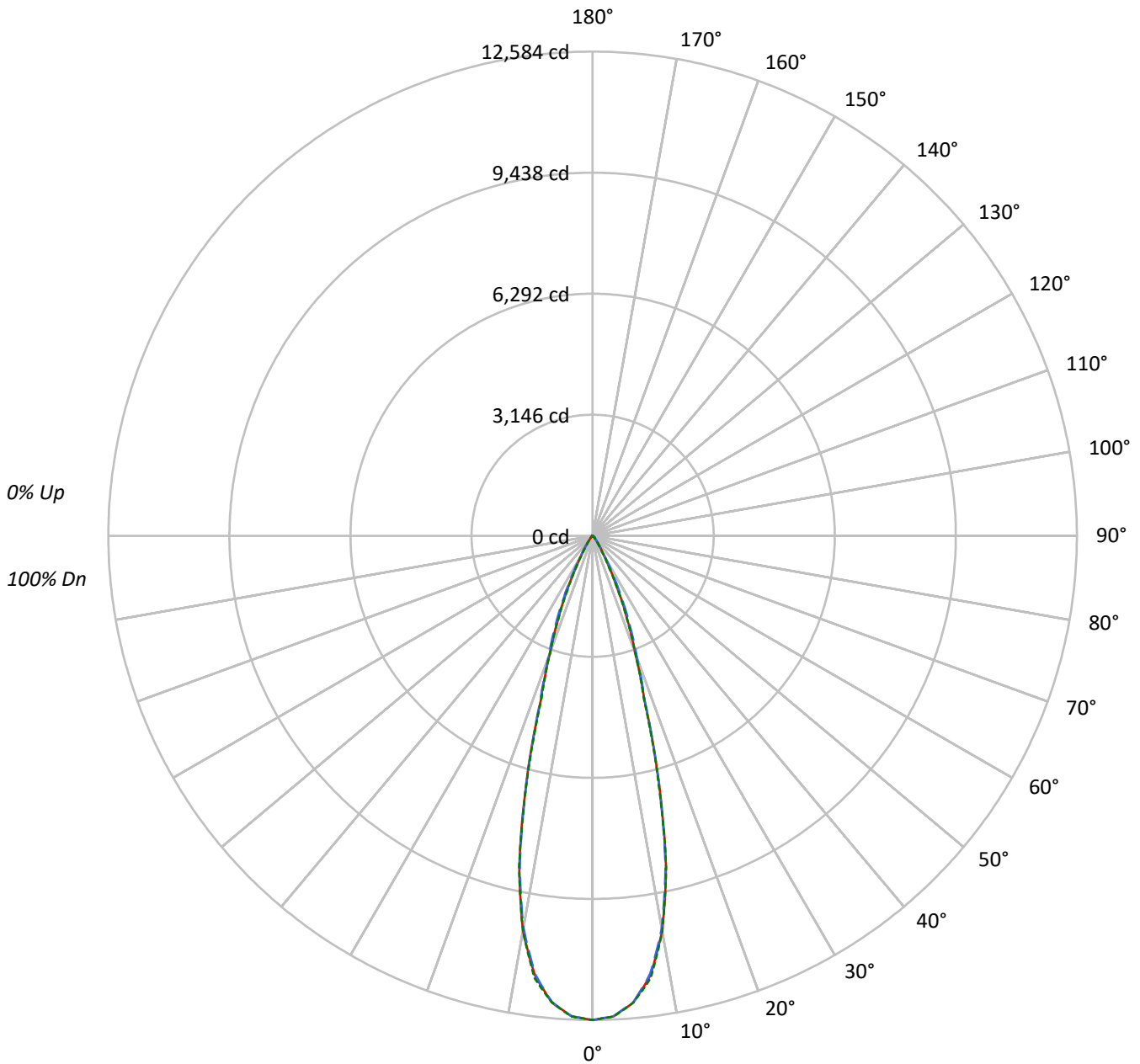


Downlight

TEST NUMBER: P747594

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P747594

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBDP1H

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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	963245	963245	963245
5°	935591	934500	935645
10°	810368	804655	810174
15°	528721	525884	523237
20°	262907	272771	262556
25°	132436	149344	129725
30°	53022	57777	46199
35°	24594	23557	19744
40°	10622	11791	10002
45°	7491	9299	7556
50°	2572	6764	2727
55°	1481	2802	1561
60°	1041	1225	1041
65°	670	670	670
70°	425	269	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9299 cd/sqm



TEST NUMBER: P747594

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1106.6	28.3
10°-20°	1782.2	45.5
20°-30°	770.1	19.7
30°-40°	175.5	4.5
40°-50°	60.3	1.5
50°-60°	14.7	0.4
60°-70°	3.8	0.1
70°-80°	0.4	0.0
80°-90°	0.0	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°	3658.9	93.5
0°-40°	3834.4	98.0
0°-60°	3909.4	99.9
0°-90°	3913.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12584	12584	12584	12584	12584	
5°	12176	12165	12162	12188	12177	1108
15°	6672	6592	6636	6615	6603	1787
25°	1568	1627	1768	1586	1536	751
35°	263	269	252	250	211	179
45°	69	86	86	86	70	49
55°	11	12	21	12	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P747594

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12584.3	12584.3	12584.3	12584.3	12584.3
2.5°	12500.9	12492.3	12497.2	12503.4	12505.9
5°	12176.5	12164.8	12162.3	12187.7	12177.2
7.5°	11522.2	11505.6	11480.2	11537.7	11591.4
10°	10426.2	10407.6	10352.7	10379.8	10423.7
12.5°	8808.0	8748.1	8746.9	8833.4	8821.6
15°	6672.1	6591.8	6636.3	6614.7	6602.9
17.5°	4486.8	4455.9	4515.2	4497.3	4420.1
20°	3227.6	3235.7	3348.7	3291.9	3223.3
22.5°	2355.2	2384.3	2518.3	2371.9	2318.2
25°	1568.1	1627.4	1768.3	1586.0	1536.0
27.5°	964.5	991.6	1134.4	952.1	924.9
30°	599.9	586.3	653.7	561.0	522.7
32.5°	393.6	376.3	397.9	357.1	326.2
35°	263.2	268.8	252.1	250.2	211.3
37.5°	164.3	189.1	166.8	177.9	135.9
40°	106.3	137.2	118.0	130.4	100.1
42.5°	87.1	105.7	97.0	103.2	89.0
45°	69.2	85.9	85.9	85.9	69.8
47.5°	38.3	57.5	73.5	58.7	40.8
50°	21.6	29.0	56.8	30.3	22.9
52.5°	14.8	16.7	38.9	17.3	15.4
55°	11.1	11.7	21.0	12.4	11.7
57.5°	8.6	9.3	11.1	9.3	8.6
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.6	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.2	1.2	1.2	1.9
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)