

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: P748105

Luminaire Tested: LD4D40BD010-EU4DR6540509030-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P748105
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-EU4DR6540509030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3469.9 lumens
Efficiency: N/A
Efficacy: 98.6 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

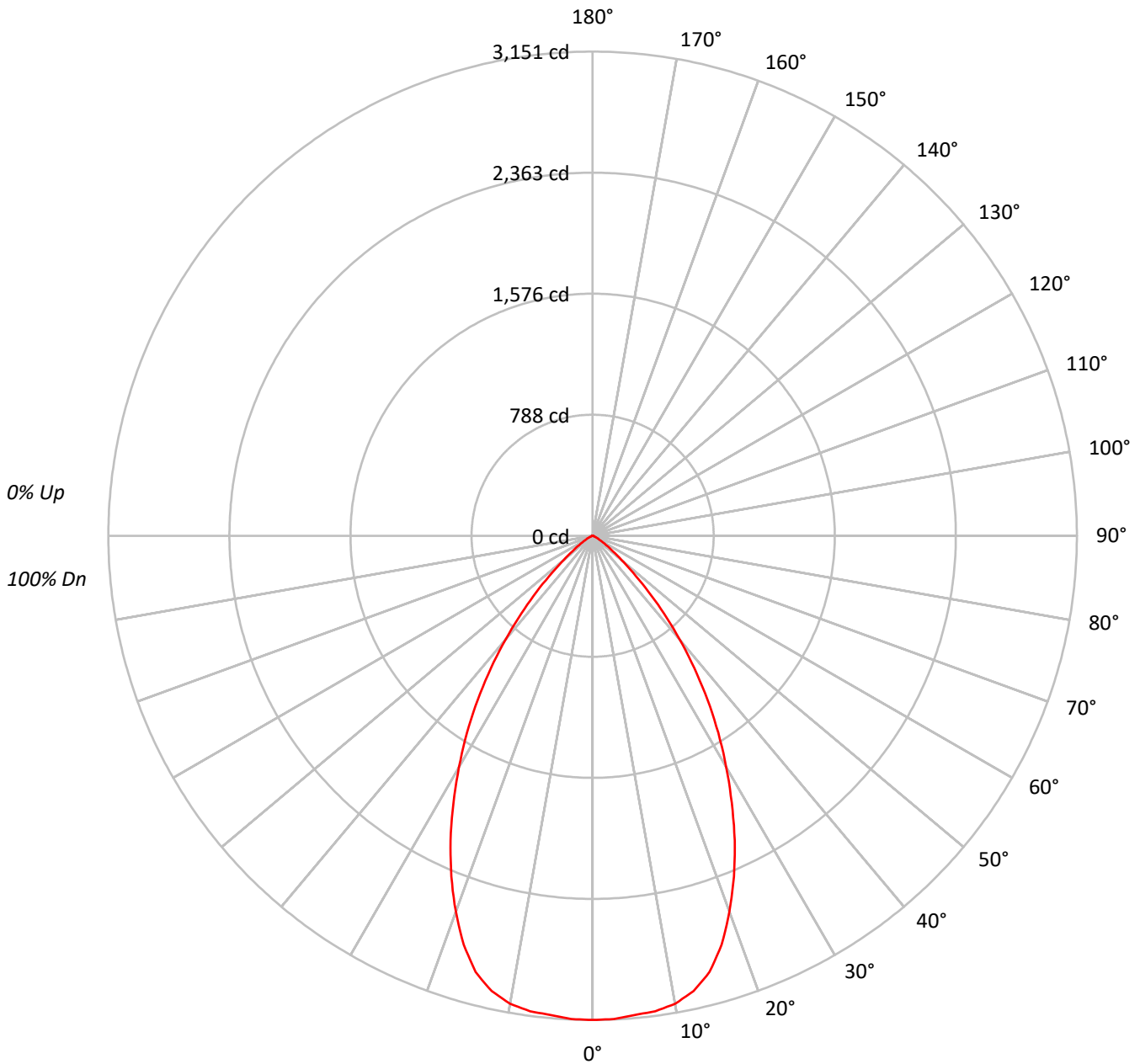
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748105
CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P748105

CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBS1H

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			100																
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184007
5°	183543
10°	183382
15°	177728
20°	161801
25°	140998
30°	117270
35°	92923
40°	67069
45°	42372
50°	22088
55°	11740
60°	6167
65°	3386
70°	1417
75°	1557
80°	1076
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42372 cd/sqm



TEST NUMBER: P748105

CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.9	8.6
10°-20°	815.9	23.5
20°-30°	997.3	28.7
30°-40°	809.2	23.3
40°-50°	403.2	11.6
50°-60°	112.5	3.2
60°-70°	25.6	0.7
70°-80°	6.6	0.2
80°-90°	1.7	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°	2111.1	60.8
0°-40°	2920.3	84.2
0°-60°	3436.0	99.0
0°-90°	3469.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3469.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3151	
5°	3131	298
15°	2939	816
25°	2188	997
35°	1303	809
45°	513	403
55°	115	112
65°	24	26
75°	7	7
85°	1	2
90°	0	



TEST NUMBER: P748105

CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3150.6
2.5°	3148.2
5°	3130.7
7.5°	3120.5
10°	3092.2
12.5°	3034.8
15°	2939.4
17.5°	2790.4
20°	2603.3
22.5°	2401.5
25°	2188.0
27.5°	1959.8
30°	1738.9
32.5°	1520.9
35°	1303.3
37.5°	1086.1
40°	879.7
42.5°	686.1
45°	513.0
47.5°	357.4
50°	243.1
52.5°	167.6
55°	115.3
57.5°	77.8
60°	52.8
62.5°	36.6
65°	24.5
67.5°	12.5
70°	8.3
72.5°	7.9
75°	6.9
77.5°	4.6
80°	3.2
82.5°	2.3
85°	1.4
87.5°	0.9
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

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



— 0°-180°

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)