

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: P781390

Luminaire Tested: LER4D40BD010-EC4DR6040509040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR6040509040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4410.6 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): 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

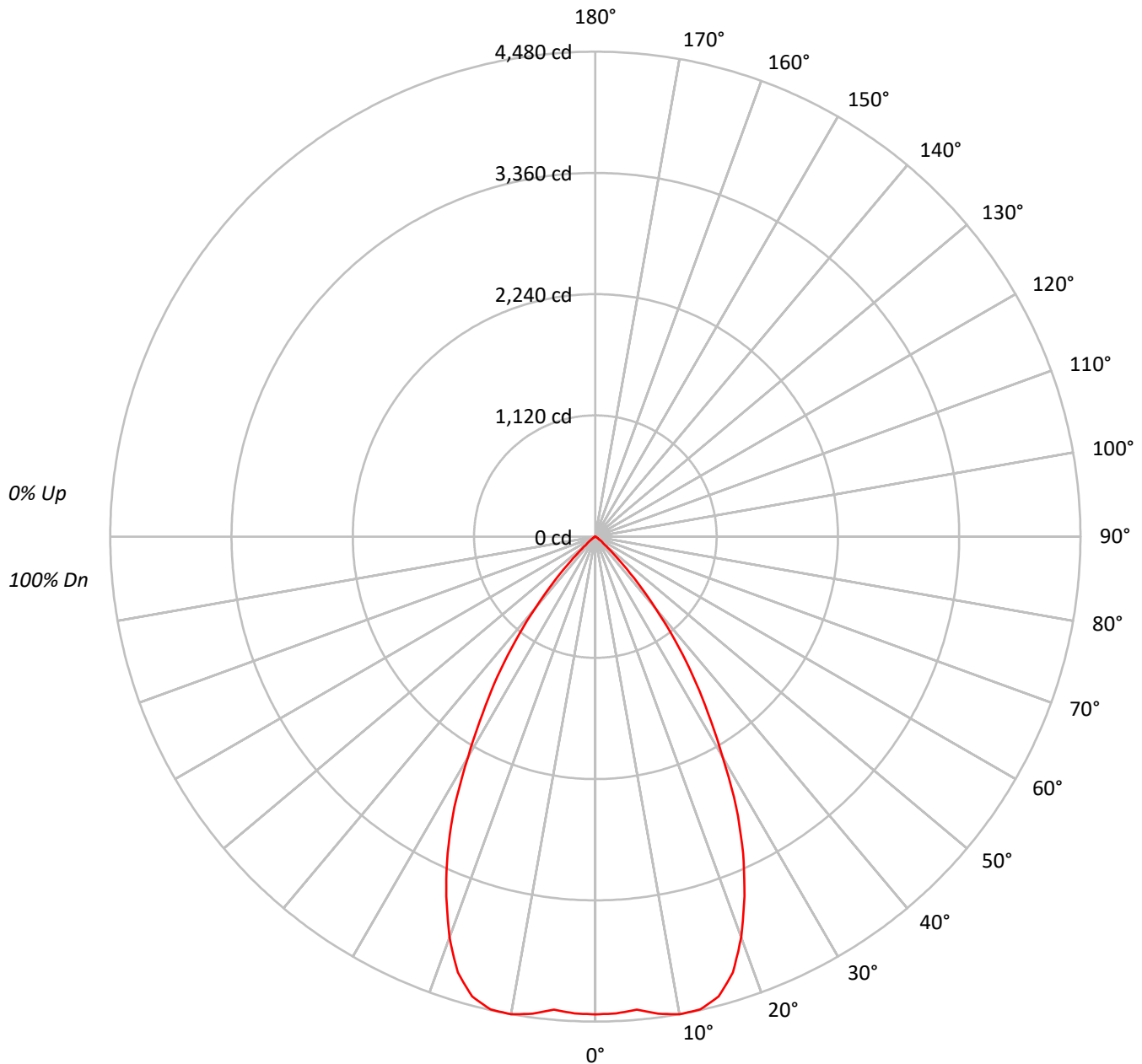


Downlight

TEST NUMBER: P781390

CATALOG NUMBER: LER4D40BD010-EC4DR6040509040-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781390

CATALOG NUMBER: LER4D40BD010-EC4DR6040509040-4LBS1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	482266
5°	481081
10°	497062
15°	497582
20°	457824
25°	389408
30°	296724
35°	209824
40°	123218
45°	49724
50°	16607
55°	7982
60°	3278
65°	491
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49724 cd/sqm



TEST NUMBER: P781390

CATALOG NUMBER: LER4D40BD010-EC4DR6040509040-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	9.6
10°-20°	1218.6	27.6
20°-30°	1458.5	33.1
30°-40°	975.5	22.1
40°-50°	289.3	6.6
50°-60°	41.6	0.9
60°-70°	4.0	0.1
70°-80°	0.0	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°	3100.3	70.3
0°-40°	4075.9	92.4
0°-60°	4406.7	99.9
0°-90°	4410.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4414	
5°	4386	423
15°	4399	1219
25°	3230	1459
35°	1573	976
45°	322	289
55°	42	42
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781390

CATALOG NUMBER: LER4D40BD010-EC4DR6040509040-4LBS1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	4413.9
2.5°	4408.3
5°	4386.3
7.5°	4445.8
10°	4480.2
12.5°	4474.0
15°	4398.9
17.5°	4221.7
20°	3937.5
22.5°	3596.3
25°	3230.1
27.5°	2817.6
30°	2351.9
32.5°	1936.2
35°	1573.1
37.5°	1209.4
40°	863.9
42.5°	569.7
45°	321.8
47.5°	164.6
50°	97.7
52.5°	63.2
55°	41.9
57.5°	26.9
60°	15.0
62.5°	6.3
65°	1.9
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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°







(END OF REPORT)