

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: P781384

Luminaire Tested: LER4D40BD010-EC4DR6040509035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781384
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-EC4DR6040509035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3760.4 lumens
Efficiency: N/A
Efficacy: 106.8 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

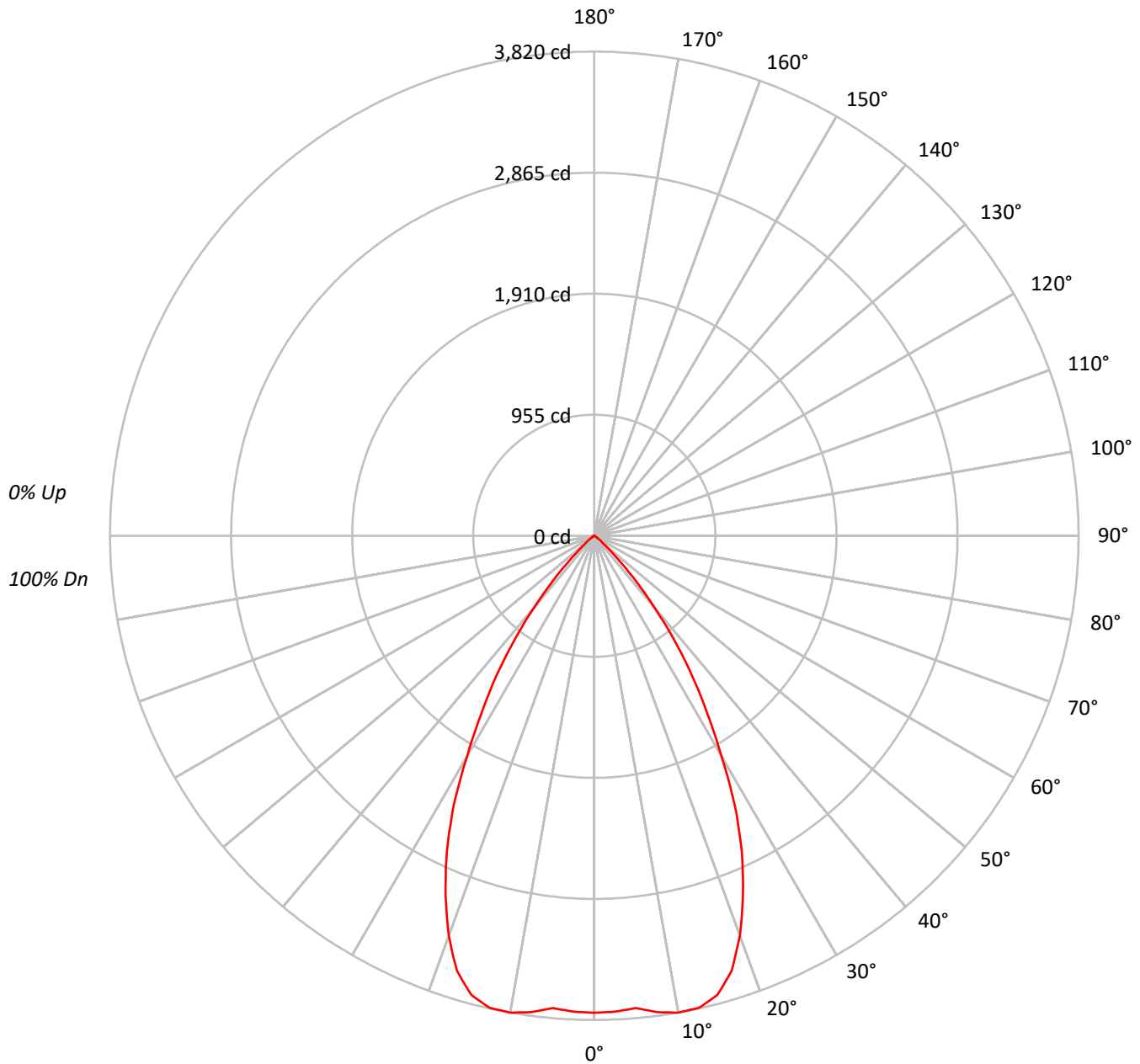


Downlight

TEST NUMBER: P781384

CATALOG NUMBER: LER4D40BD010-EC4DR6040509035-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P781384

CATALOG NUMBER: LER4D40BD010-EC4DR6040509035-4LBS1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	411170
5°	410163
10°	423781
15°	424227
20°	390328
25°	331999
30°	252970
35°	178893
40°	105047
45°	42384
50°	14159
55°	6820
60°	2797
65°	414
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42384 cd/sqm



TEST NUMBER: P781384

CATALOG NUMBER: LER4D40BD010-EC4DR6040509035-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.8	9.6
10°-20°	1039.0	27.6
20°-30°	1243.5	33.1
30°-40°	831.7	22.1
40°-50°	246.6	6.6
50°-60°	35.5	0.9
60°-70°	3.4	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°	2643.2	70.3
0°-40°	3475.0	92.4
0°-60°	3757.0	99.9
0°-90°	3760.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3763	
5°	3740	361
15°	3750	1039
25°	2754	1244
35°	1341	832
45°	274	247
55°	36	35
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781384

CATALOG NUMBER: LER4D40BD010-EC4DR6040509035-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3763.2
2.5°	3758.4
5°	3739.7
7.5°	3790.4
10°	3819.7
12.5°	3814.4
15°	3750.4
17.5°	3599.3
20°	3357.0
22.5°	3066.1
25°	2753.9
27.5°	2402.2
30°	2005.1
32.5°	1650.8
35°	1341.2
37.5°	1031.1
40°	736.5
42.5°	485.7
45°	274.3
47.5°	140.4
50°	83.3
52.5°	53.9
55°	35.8
57.5°	22.9
60°	12.8
62.5°	5.3
65°	1.6
67.5°	0.5
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





— 0°-180°







(END OF REPORT)