

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: P780209

Luminaire Tested: LER4D20D010-EC4DR3520359035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR3520359035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1957.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



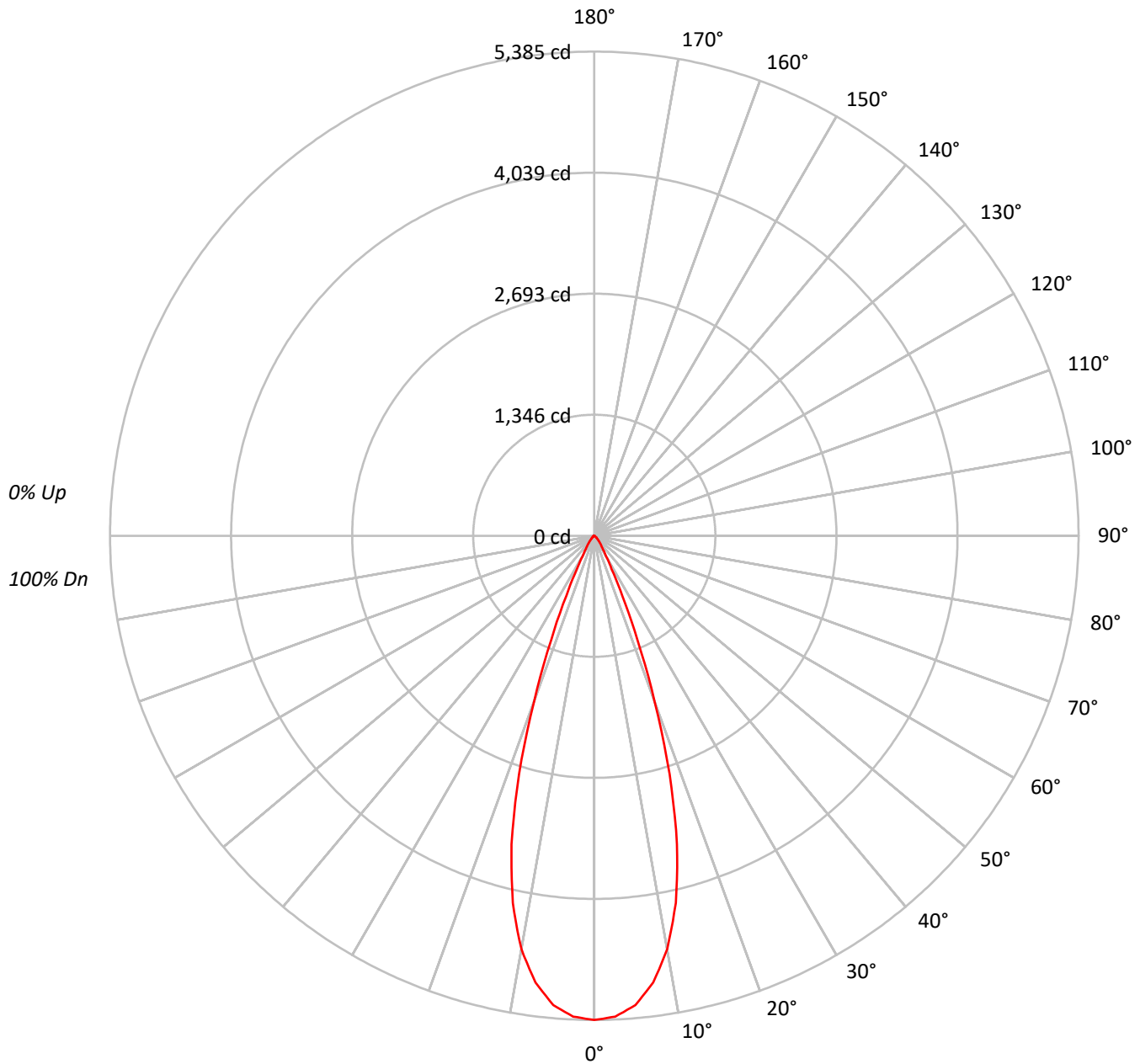
Downlight



TEST NUMBER: P780209

CATALOG NUMBER: LER4D20D010-EC4DR3520359035-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P780209

CATALOG NUMBER: LER4D20D010-EC4DR3520359035-4LBS1H

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	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	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96						
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92						
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88						
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84						
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81						
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78						
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75						
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72						
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70						
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	588391
5°	574571
10°	517831
15°	401920
20°	227965
25°	88693
30°	33080
35°	18140
40°	11853
45°	7216
50°	4589
55°	3238
60°	2382
65°	1293
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7216 cd/sqm



TEST NUMBER: P780209

CATALOG NUMBER: LER4D20D010-EC4DR3520359035-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.8	24.6
10°-20°	940.7	48.1
20°-30°	383.6	19.6
30°-40°	91.8	4.7
40°-50°	38.2	2.0
50°-60°	15.8	0.8
60°-70°	5.0	0.3
70°-80°	0.1	0.0
80°-90°	0.1	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°	1806.1	92.3
0°-40°	1897.9	97.0
0°-60°	1952.0	99.7
0°-90°	1957.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5385	
5°	5239	482
15°	3553	941
25°	736	384
35°	136	92
45°	47	38
55°	17	16
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780209

CATALOG NUMBER: LER4D20D010-EC4DR3520359035-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	5385.2
2.5°	5352.9
5°	5238.7
7.5°	5010.7
10°	4667.4
12.5°	4184.0
15°	3553.2
17.5°	2781.7
20°	1960.6
22.5°	1250.2
25°	735.7
27.5°	415.8
30°	262.2
32.5°	184.1
35°	136.0
37.5°	105.1
40°	83.1
42.5°	64.0
45°	46.7
47.5°	34.9
50°	27.0
52.5°	21.4
55°	17.0
57.5°	13.8
60°	10.9
62.5°	7.9
65°	5.0
67.5°	1.8
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)