

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: P780202

Luminaire Tested: LER4D20D010-EC4DR3520359027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780202
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-EC4DR3520359027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.3 lumens
Efficiency: N/A
Efficacy: 81.6 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



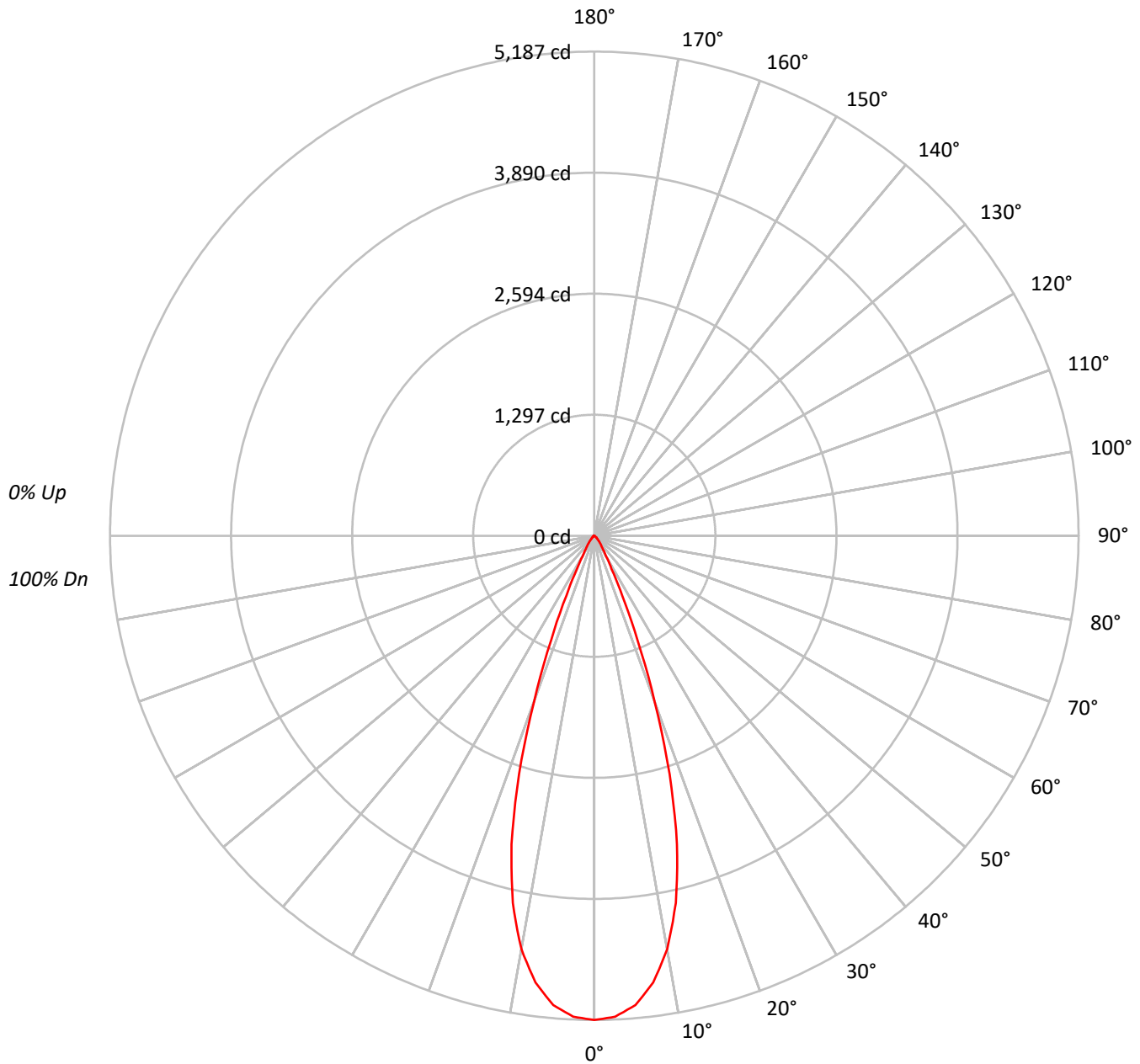
Downlight



TEST NUMBER: P780202

CATALOG NUMBER: LER4D20D010-EC4DR3520359027-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P780202

CATALOG NUMBER: LER4D20D010-EC4DR3520359027-4LBS1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	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°	566779
5°	553458
10°	498814
15°	387159
20°	219593
25°	85426
30°	31869
35°	17473
40°	11410
45°	6953
50°	4419
55°	3124
60°	2294
65°	1241
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6953 cd/sqm



TEST NUMBER: P780202

CATALOG NUMBER: LER4D20D010-EC4DR3520359027-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.1	24.6
10°-20°	906.1	48.1
20°-30°	369.5	19.6
30°-40°	88.4	4.7
40°-50°	36.8	2.0
50°-60°	15.2	0.8
60°-70°	4.8	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°	1739.8	92.3
0°-40°	1828.2	97.0
0°-60°	1880.3	99.7
0°-90°	1885.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5187	
5°	5046	464
15°	3423	906
25°	709	370
35°	131	88
45°	45	37
55°	16	15
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780202

CATALOG NUMBER: LER4D20D010-EC4DR3520359027-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	5187.4
2.5°	5156.2
5°	5046.2
7.5°	4826.7
10°	4496.0
12.5°	4030.4
15°	3422.7
17.5°	2679.5
20°	1888.6
22.5°	1204.3
25°	708.6
27.5°	400.5
30°	252.6
32.5°	177.4
35°	131.0
37.5°	101.3
40°	80.0
42.5°	61.6
45°	45.0
47.5°	33.7
50°	26.0
52.5°	20.6
55°	16.4
57.5°	13.3
60°	10.5
62.5°	7.6
65°	4.8
67.5°	1.7
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

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

Scaled Data Report





— 0°-180°







(END OF REPORT)