

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: P780280

Luminaire Tested: LER4D20D010-EC4DR5020359035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR5020359035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2011.4 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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



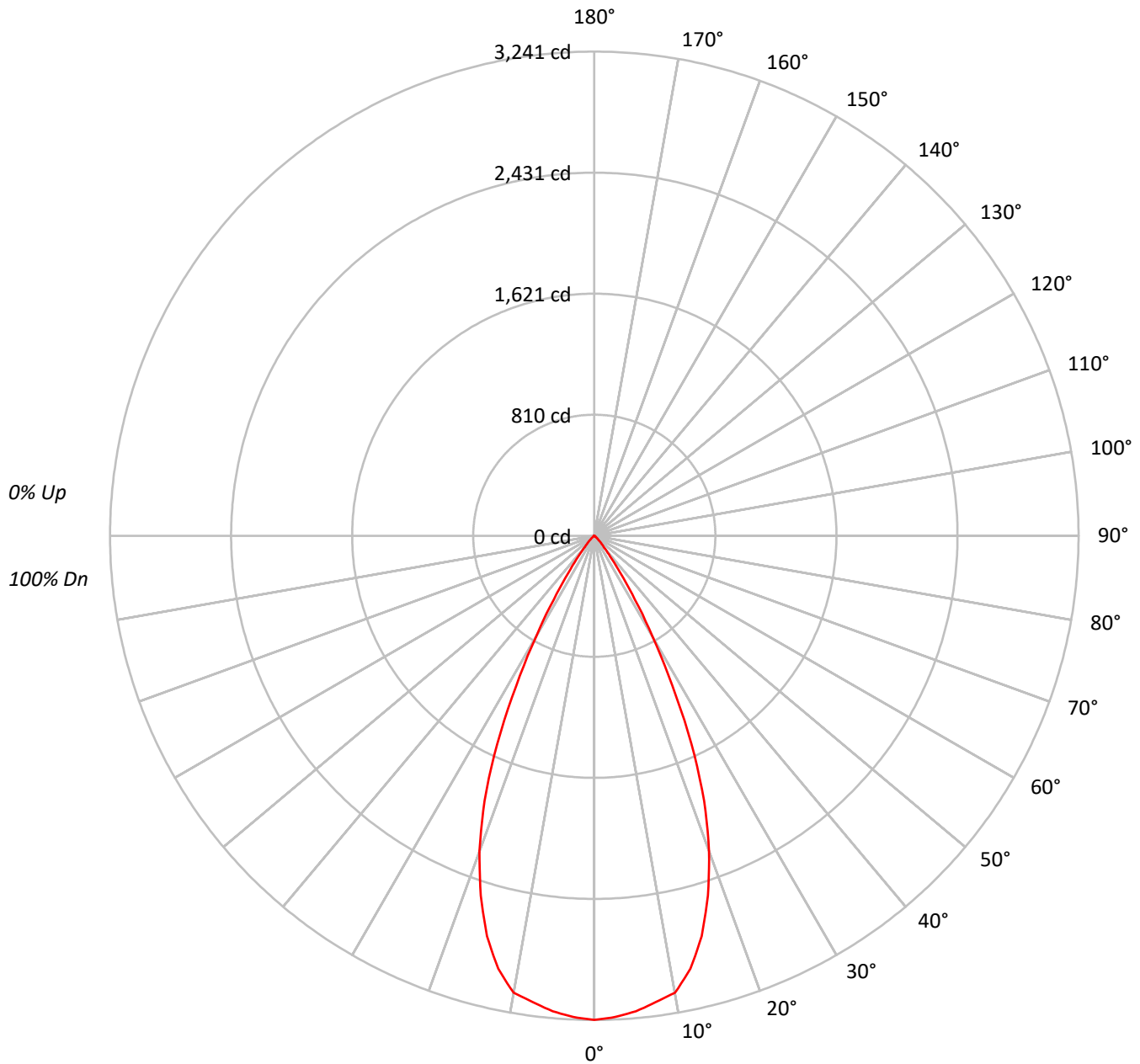
Downlight



TEST NUMBER: P780280

CATALOG NUMBER: LER4D20D010-EC4DR5020359035-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P780280

CATALOG NUMBER: LER4D20D010-EC4DR5020359035-4LBS1B

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	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95		
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76		
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72		
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69		
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65		
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62		
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	354092
5°	350378
10°	344610
15°	313792
20°	261114
25°	185355
30°	98105
35°	39975
40°	14848
45°	6799
50°	2788
55°	1467
60°	721
65°	207
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6799 cd/sqm



TEST NUMBER: P780280

CATALOG NUMBER: LER4D20D010-EC4DR5020359035-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	15.0
10°-20°	763.1	37.9
20°-30°	685.5	34.1
30°-40°	214.6	10.7
40°-50°	37.6	1.9
50°-60°	7.5	0.4
60°-70°	1.1	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°	1750.5	87.0
0°-40°	1965.1	97.7
0°-60°	2010.2	99.9
0°-90°	2011.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2011.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3241	
5°	3195	302
15°	2774	763
25°	1538	685
35°	300	215
45°	44	38
55°	8	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780280

CATALOG NUMBER: LER4D20D010-EC4DR5020359035-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3240.8
2.5°	3224.6
5°	3194.6
7.5°	3148.7
10°	3106.1
12.5°	2969.4
15°	2774.1
17.5°	2526.0
20°	2245.7
22.5°	1921.3
25°	1537.5
27.5°	1130.4
30°	777.6
32.5°	506.3
35°	299.7
37.5°	172.1
40°	104.1
42.5°	67.8
45°	44.0
47.5°	26.8
50°	16.4
52.5°	11.2
55°	7.7
57.5°	5.2
60°	3.3
62.5°	1.9
65°	0.8
67.5°	0.3
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)