

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: P780260

Luminaire Tested: LER4D20D010-EC4DR4520359040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4520359040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2019.8 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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



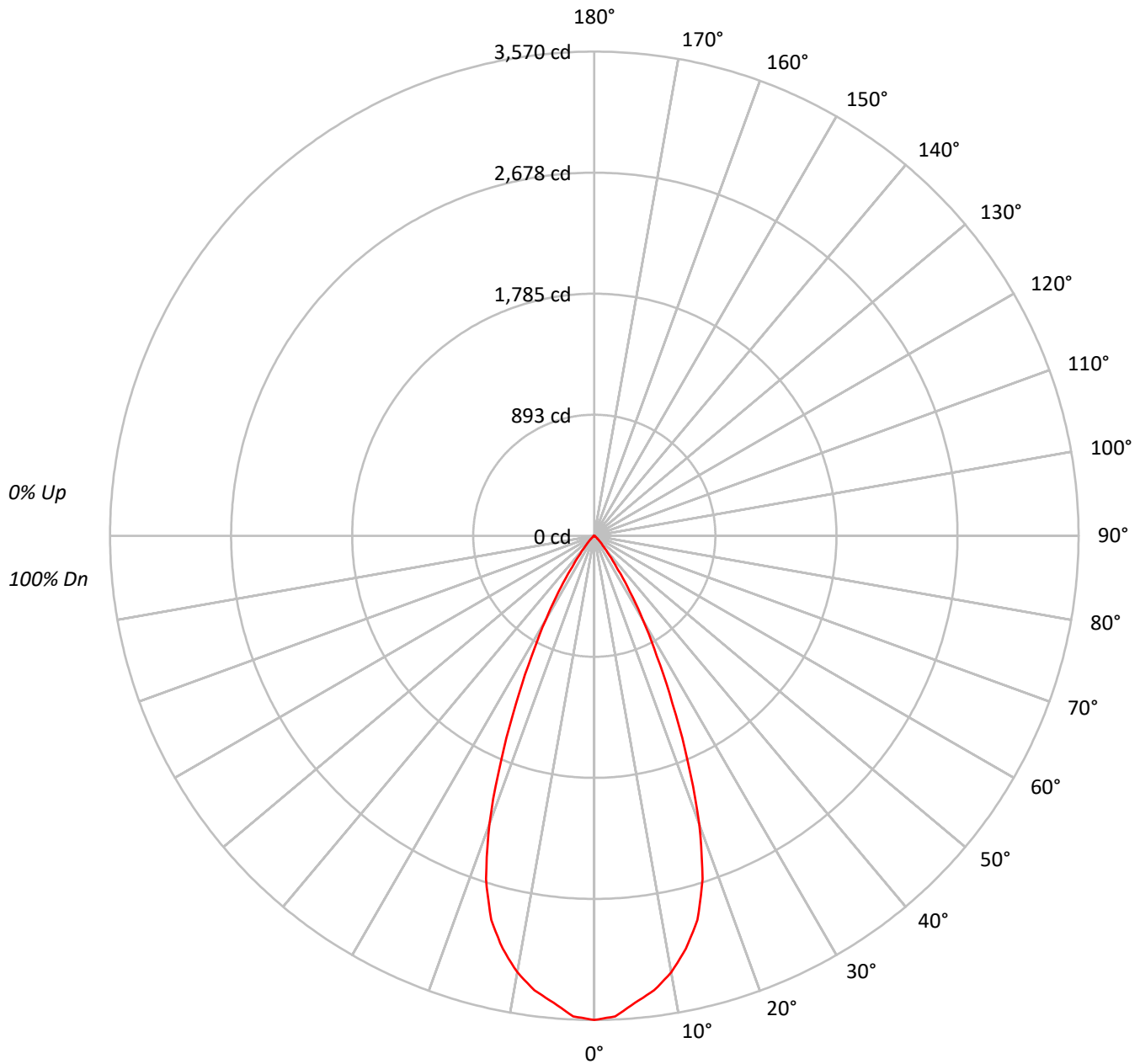
Downlight



TEST NUMBER: P780260

CATALOG NUMBER: LER4D20D010-EC4DR4520359040-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P780260

CATALOG NUMBER: LER4D20D010-EC4DR4520359040-4LBS1B

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108		112	110	108	106		106	104	103		102	101	100		98	98	97
2	109	105	102	99		107	103	100	98		100	98	95		97	95	93		95	93	91
3	105	99	95	91		103	98	94	91		95	92	89		93	90	88		91	89	87
4	100	94	89	85		99	93	88	85		91	87	84		89	86	83		87	84	82
5	96	89	84	80		95	88	83	80		86	82	79		85	81	79		83	80	78
6	92	85	80	76		91	84	79	76		83	78	75		81	77	75		80	77	74
7	89	81	75	72		87	80	75	72		79	74	71		78	74	71		77	73	71
8	85	77	72	68		84	76	71	68		75	71	68		74	70	67		73	70	67
9	82	73	68	65		81	73	68	65		72	68	65		71	67	64		71	67	64
10	79	70	65	62		78	70	65	62		69	65	62		68	64	61		68	64	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	390061
5°	378960
10°	362561
15°	331823
20°	263242
25°	164342
30°	90585
35°	40668
40°	16017
45°	7556
50°	3587
55°	1886
60°	918
65°	233
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7556 cd/sqm



TEST NUMBER: P780260

CATALOG NUMBER: LER4D20D010-EC4DR4520359040-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	16.1
10°-20°	799.0	39.6
20°-30°	632.7	31.3
30°-40°	210.7	10.4
40°-50°	41.8	2.1
50°-60°	9.5	0.5
60°-70°	1.4	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°	1756.4	87.0
0°-40°	1967.0	97.4
0°-60°	2018.4	99.9
0°-90°	2019.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3570	
5°	3455	325
15°	2934	799
25°	1363	633
35°	305	211
45°	49	42
55°	10	10
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780260

CATALOG NUMBER: LER4D20D010-EC4DR4520359040-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3570.0
2.5°	3546.7
5°	3455.2
7.5°	3379.6
10°	3267.9
12.5°	3119.0
15°	2933.5
17.5°	2654.3
20°	2264.0
22.5°	1799.1
25°	1363.2
27.5°	998.2
30°	718.0
32.5°	488.3
35°	304.9
37.5°	180.8
40°	112.3
42.5°	73.9
45°	48.9
47.5°	31.5
50°	21.1
52.5°	14.0
55°	9.9
57.5°	6.5
60°	4.2
62.5°	2.2
65°	0.9
67.5°	0.3
70°	0.3
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)