

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: P780212

Luminaire Tested: LER4D20D010-EC4DR3520359040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780212
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-EC4DR3520359040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1871.3 lumens
Efficiency: N/A
Efficacy: 81.0 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



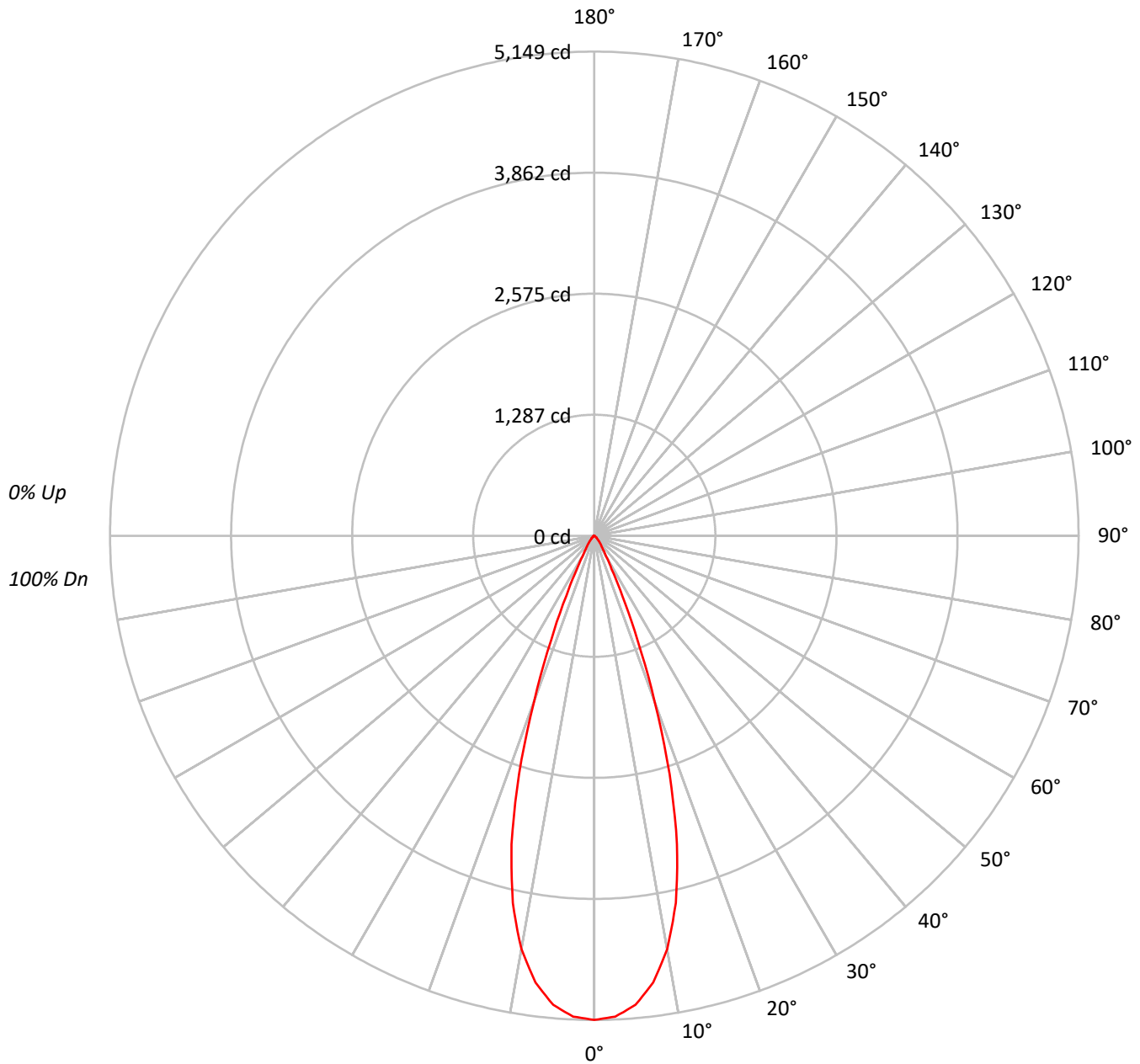
Downlight



TEST NUMBER: P780212

CATALOG NUMBER: LER4D20D010-EC4DR3520359040-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P780212

CATALOG NUMBER: LER4D20D010-EC4DR3520359040-4LBS1B

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	101	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	105	100	96	93	97	95	92		95	93	91		93
4	103	97	92	89	101	96	92	89	94	90	88		92	89	87		90
5	99	93	88	85	98	92	87	84	90	86	84		89	85	83		87
6	96	89	84	81	94	88	84	81	87	83	80		85	82	80		84
7	93	85	81	78	91	85	80	77	84	80	77		83	79	77		82
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	562551
5°	549334
10°	495098
15°	384274
20°	217953
25°	84799
30°	31629
35°	17340
40°	11339
45°	6892
50°	4385
55°	3105
60°	2273
65°	1241
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6892 cd/sqm



TEST NUMBER: P780212

CATALOG NUMBER: LER4D20D010-EC4DR3520359040-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	24.6
10°-20°	899.4	48.1
20°-30°	366.8	19.6
30°-40°	87.8	4.7
40°-50°	36.6	2.0
50°-60°	15.1	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°	1726.8	92.3
0°-40°	1814.6	97.0
0°-60°	1866.3	99.7
0°-90°	1871.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5149	
5°	5009	461
15°	3397	899
25°	703	367
35°	130	88
45°	45	37
55°	16	15
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780212

CATALOG NUMBER: LER4D20D010-EC4DR3520359040-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	5148.7
2.5°	5117.8
5°	5008.6
7.5°	4790.7
10°	4462.5
12.5°	4000.3
15°	3397.2
17.5°	2659.6
20°	1874.5
22.5°	1195.3
25°	703.4
27.5°	397.6
30°	250.7
32.5°	176.1
35°	130.0
37.5°	100.5
40°	79.5
42.5°	61.2
45°	44.6
47.5°	33.4
50°	25.8
52.5°	20.5
55°	16.3
57.5°	13.2
60°	10.4
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





— 0°-180°







(END OF REPORT)