

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: P780376

Luminaire Tested: LER4D20D010-EC4DR7020359035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR7020359035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1925.3 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
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



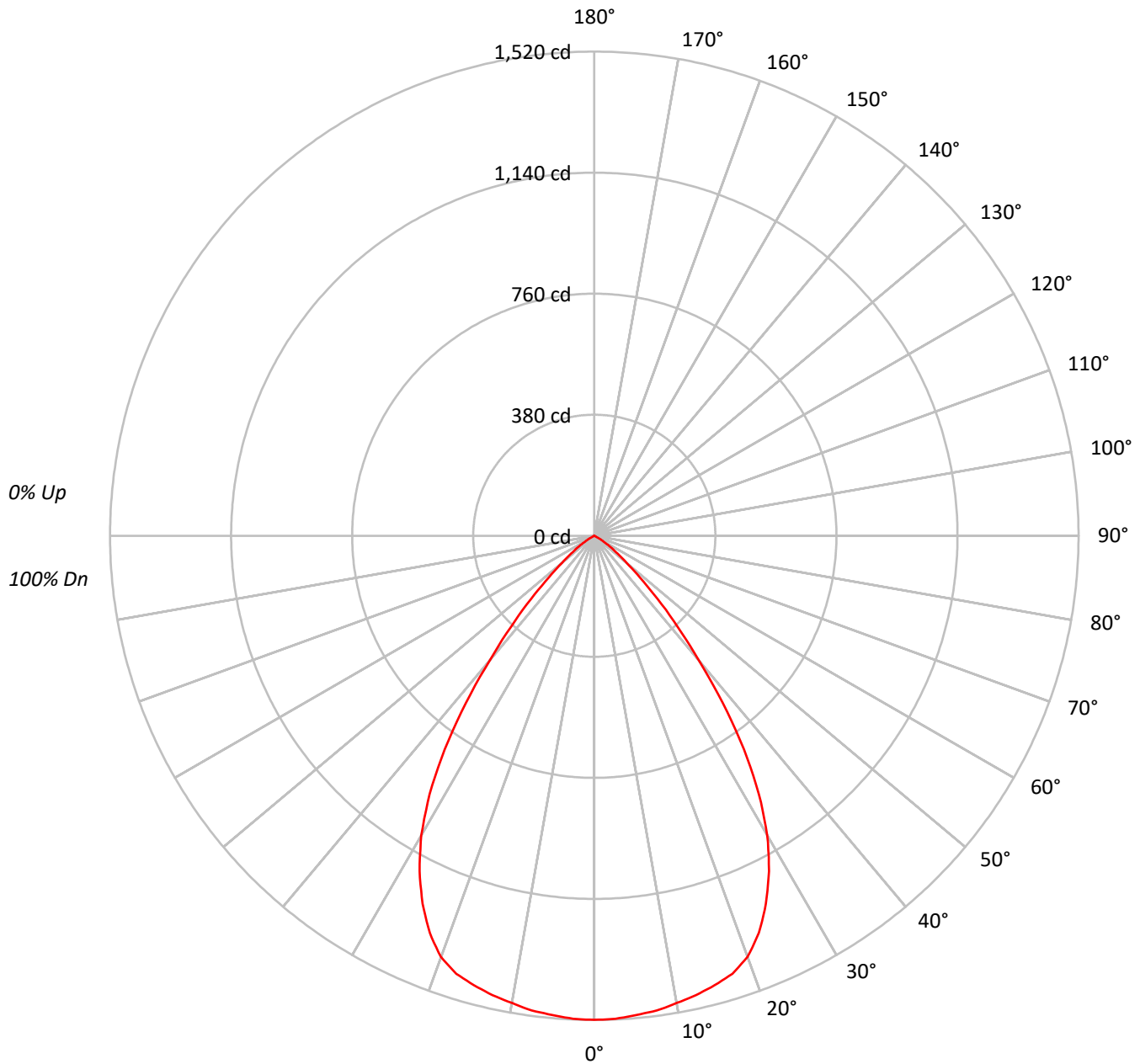
Downlight



TEST NUMBER: P780376

CATALOG NUMBER: LER4D20D010-EC4DR7020359035-4LBS1B

Luminous Intensity Polar Plot



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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	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	85	82		87	84	81		85
4	95	87	81	76	93	86	80	76	83	78	75		81	77	74		79
5	89	80	74	69	88	79	73	69	78	72	68		76	71	68		74
6	84	75	68	63	83	74	68	63	72	67	63		71	66	62		69
7	80	69	63	58	78	69	62	58	67	62	58		66	61	57		65
8	75	65	58	54	74	64	58	54	63	57	53		62	57	53		61
9	71	61	54	50	70	60	54	50	59	53	50		58	53	49		57
10	67	57	50	46	66	56	50	46	55	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166033
5°	165614
10°	165266
15°	165216
20°	163596
25°	153685
30°	137001
35°	109240
40°	72542
45°	43358
50°	22471
55°	11829
60°	4174
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43358 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	7.5
10°-20°	411.9	21.4
20°-30°	581.0	30.2
30°-40°	501.6	26.1
40°-50°	224.6	11.7
50°-60°	58.8	3.1
60°-70°	3.8	0.2
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°	1136.5	59.0
0°-40°	1638.0	85.1
0°-60°	1921.5	99.8
0°-90°	1925.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1520	
5°	1510	144
15°	1461	412
25°	1275	581
35°	819	502
45°	281	225
55°	62	59
65°	0	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1519.6
2.5°	1518.0
5°	1510.0
7.5°	1503.5
10°	1489.6
12.5°	1477.0
15°	1460.6
17.5°	1441.7
20°	1407.0
22.5°	1349.9
25°	1274.8
27.5°	1187.6
30°	1085.9
32.5°	961.6
35°	819.0
37.5°	661.5
40°	508.6
42.5°	386.4
45°	280.6
47.5°	193.5
50°	132.2
52.5°	91.3
55°	62.1
57.5°	37.4
60°	19.1
62.5°	6.0
65°	0.3
67.5°	0.0
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



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— 0°-180°







(END OF REPORT)