

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: P744454

Luminaire Tested: LD4D20D010-EU4DR5020359035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744454
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: LD4D20D010-EU4DR5020359035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2019.2 lumens
Efficiency: N/A
Efficacy: 87.4 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 (A_{in}): 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



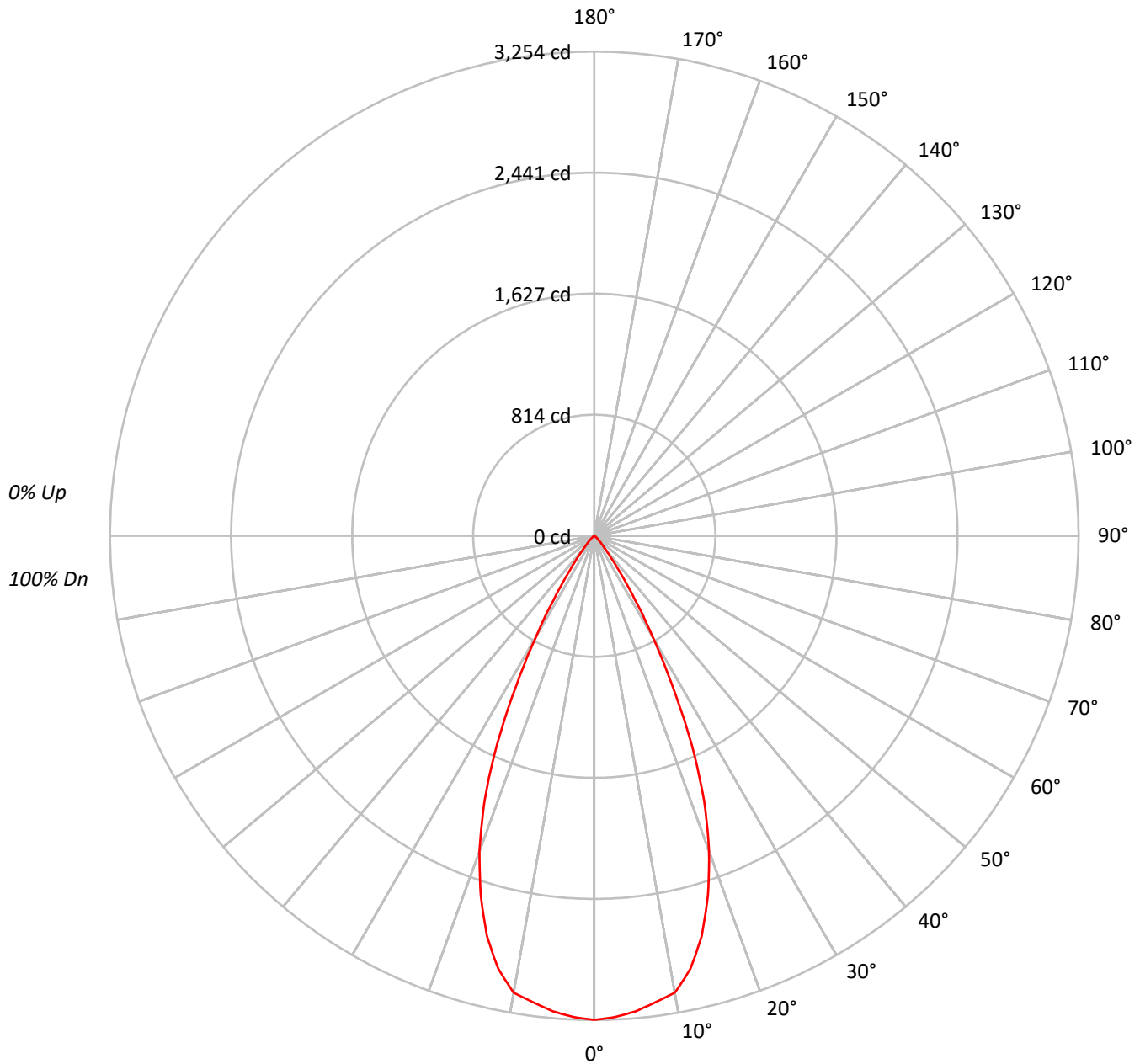
Downlight



TEST NUMBER: P744454

CATALOG NUMBER: LD4D20D010-EU4DR5020359035-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P744454

CATALOG NUMBER: LD4D20D010-EU4DR5020359035-4LBS1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	355491
5°	351760
10°	345964
15°	315025
20°	262137
25°	186078
30°	98483
35°	40135
40°	14905
45°	6830
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: 6830 cd/sqm



TEST NUMBER: P744454

CATALOG NUMBER: LD4D20D010-EU4DR5020359035-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	15.0
10°-20°	766.1	37.9
20°-30°	688.2	34.1
30°-40°	215.5	10.7
40°-50°	37.7	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°	1757.4	87.0
0°-40°	1972.9	97.7
0°-60°	2018.1	99.9
0°-90°	2019.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3254	
5°	3207	303
15°	2785	766
25°	1544	688
35°	301	215
45°	44	38
55°	8	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P744454

CATALOG NUMBER: LD4D20D010-EU4DR5020359035-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3253.6
2.5°	3237.3
5°	3207.2
7.5°	3161.1
10°	3118.3
12.5°	2981.2
15°	2785.0
17.5°	2535.9
20°	2254.5
22.5°	1928.9
25°	1543.5
27.5°	1134.8
30°	780.6
32.5°	508.3
35°	300.9
37.5°	172.8
40°	104.5
42.5°	68.0
45°	44.2
47.5°	26.9
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)