

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: P744610

Luminaire Tested: LD4D20D010-EU4DR6020359035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6020359035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1952.9 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



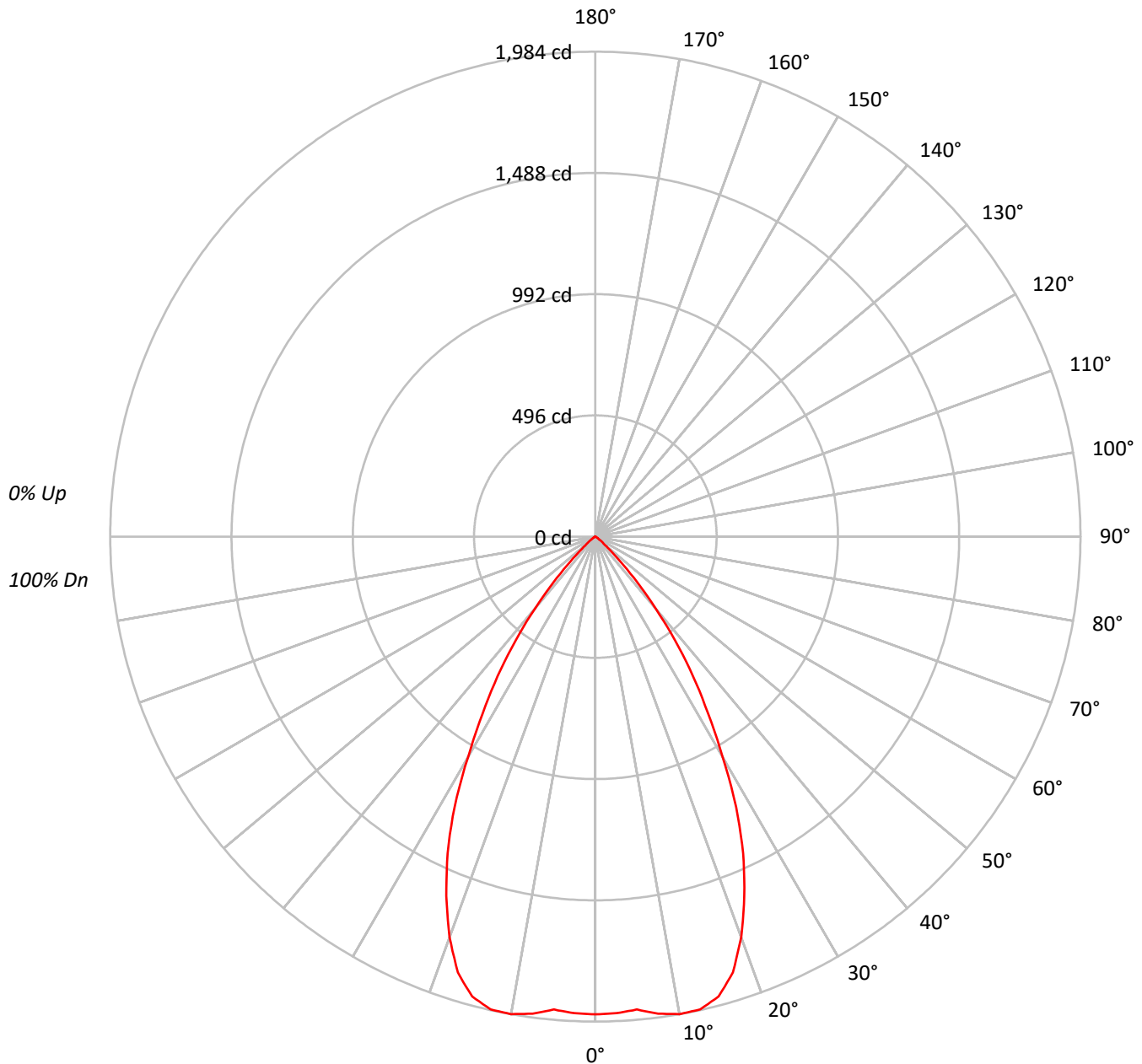
Downlight



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213528
5°	213006
10°	220084
15°	220303
20°	202710
25°	172419
30°	131374
35°	92901
40°	54556
45°	22003
50°	7360
55°	3543
60°	1442
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	9.6
10°-20°	539.6	27.6
20°-30°	645.8	33.1
30°-40°	431.9	22.1
40°-50°	128.1	6.6
50°-60°	18.4	0.9
60°-70°	1.8	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°	1372.7	70.3
0°-40°	1804.6	92.4
0°-60°	1951.1	99.9
0°-90°	1952.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1954	
5°	1942	187
15°	1948	540
25°	1430	646
35°	696	432
45°	142	128
55°	19	18
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1954.3
2.5°	1951.8
5°	1942.1
7.5°	1968.4
10°	1983.7
12.5°	1980.9
15°	1947.6
17.5°	1869.2
20°	1743.4
22.5°	1592.3
25°	1430.2
27.5°	1247.5
30°	1041.3
32.5°	857.2
35°	696.5
37.5°	535.5
40°	382.5
42.5°	252.2
45°	142.4
47.5°	72.9
50°	43.3
52.5°	28.0
55°	18.6
57.5°	11.9
60°	6.6
62.5°	2.8
65°	0.9
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



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— 0°-180°







(END OF REPORT)