

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: P780247

Luminaire Tested: LER4D20D010-EC4DR4520359024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780247
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-EC4DR4520359024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1646.8 lumens
Efficiency: N/A
Efficacy: 71.3 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



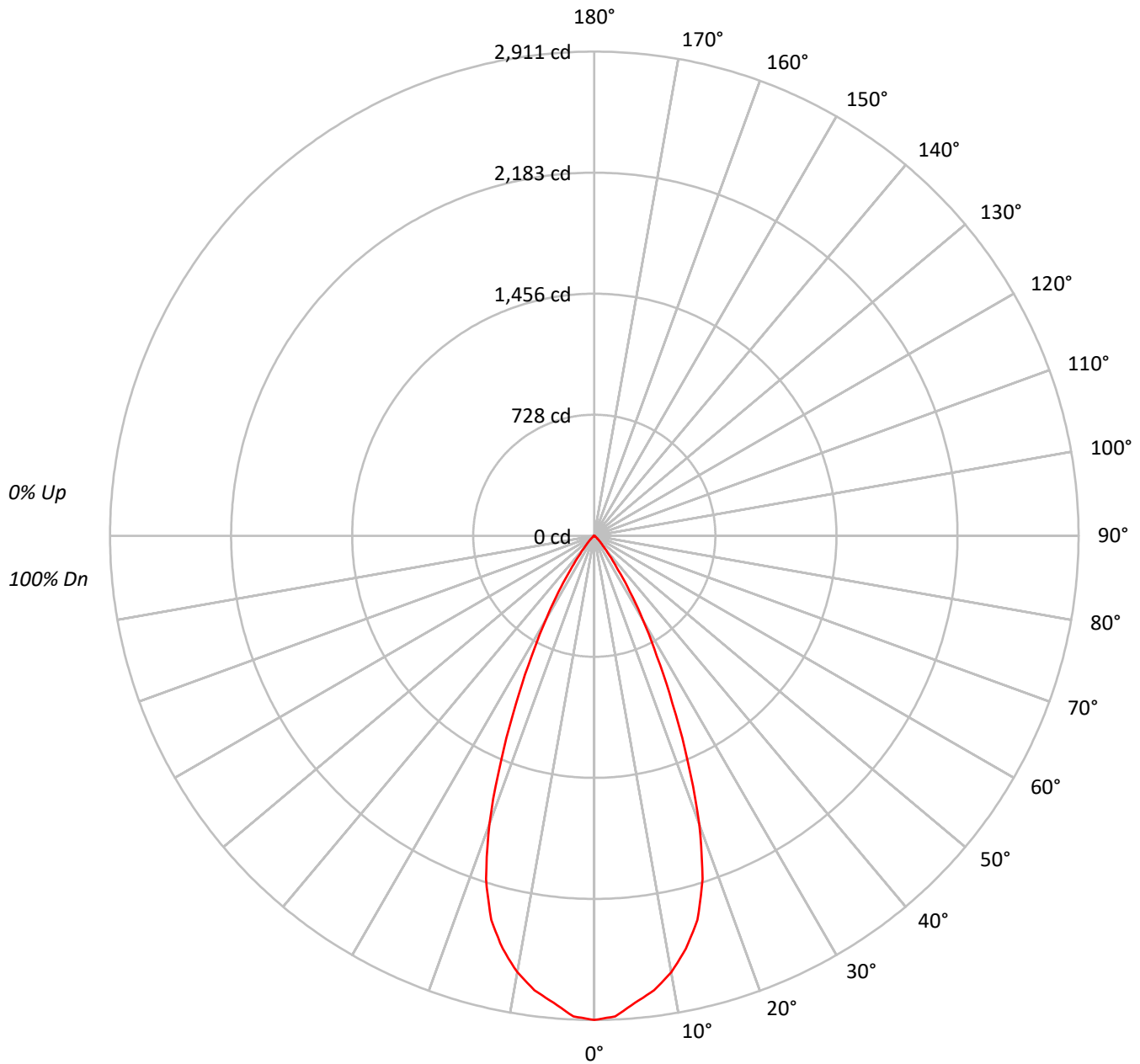
Downlight



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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					0
RW	70	50	30	10	70	50	30	10	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	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	97	97	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	91	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	87	87	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	82	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	78	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	71	71	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	67	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	64	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	61	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	318047
5°	308985
10°	295616
15°	270549
20°	214640
25°	133998
30°	73856
35°	33172
40°	13065
45°	6150
50°	2924
55°	1524
60°	743
65°	181
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6150 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	16.1
10°-20°	651.5	39.6
20°-30°	515.9	31.3
30°-40°	171.8	10.4
40°-50°	34.1	2.1
50°-60°	7.8	0.5
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°	1432.1	87.0
0°-40°	1603.9	97.4
0°-60°	1645.7	99.9
0°-90°	1646.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2911	
5°	2817	265
15°	2392	651
25°	1112	516
35°	249	172
45°	40	34
55°	8	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2910.9
2.5°	2891.9
5°	2817.2
7.5°	2755.6
10°	2664.5
12.5°	2543.2
15°	2391.8
17.5°	2164.3
20°	1846.0
22.5°	1466.9
25°	1111.5
27.5°	813.9
30°	585.4
32.5°	398.1
35°	248.7
37.5°	147.4
40°	91.6
42.5°	60.2
45°	39.8
47.5°	25.7
50°	17.2
52.5°	11.5
55°	8.0
57.5°	5.3
60°	3.4
62.5°	1.8
65°	0.7
67.5°	0.2
70°	0.2
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)