

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: P784815

Luminaire Tested: LER4DD40BD010-EC4DR6540509030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6540509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2844.1 lumens
Efficiency: N/A
Efficacy: 80.8 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): 35.2
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

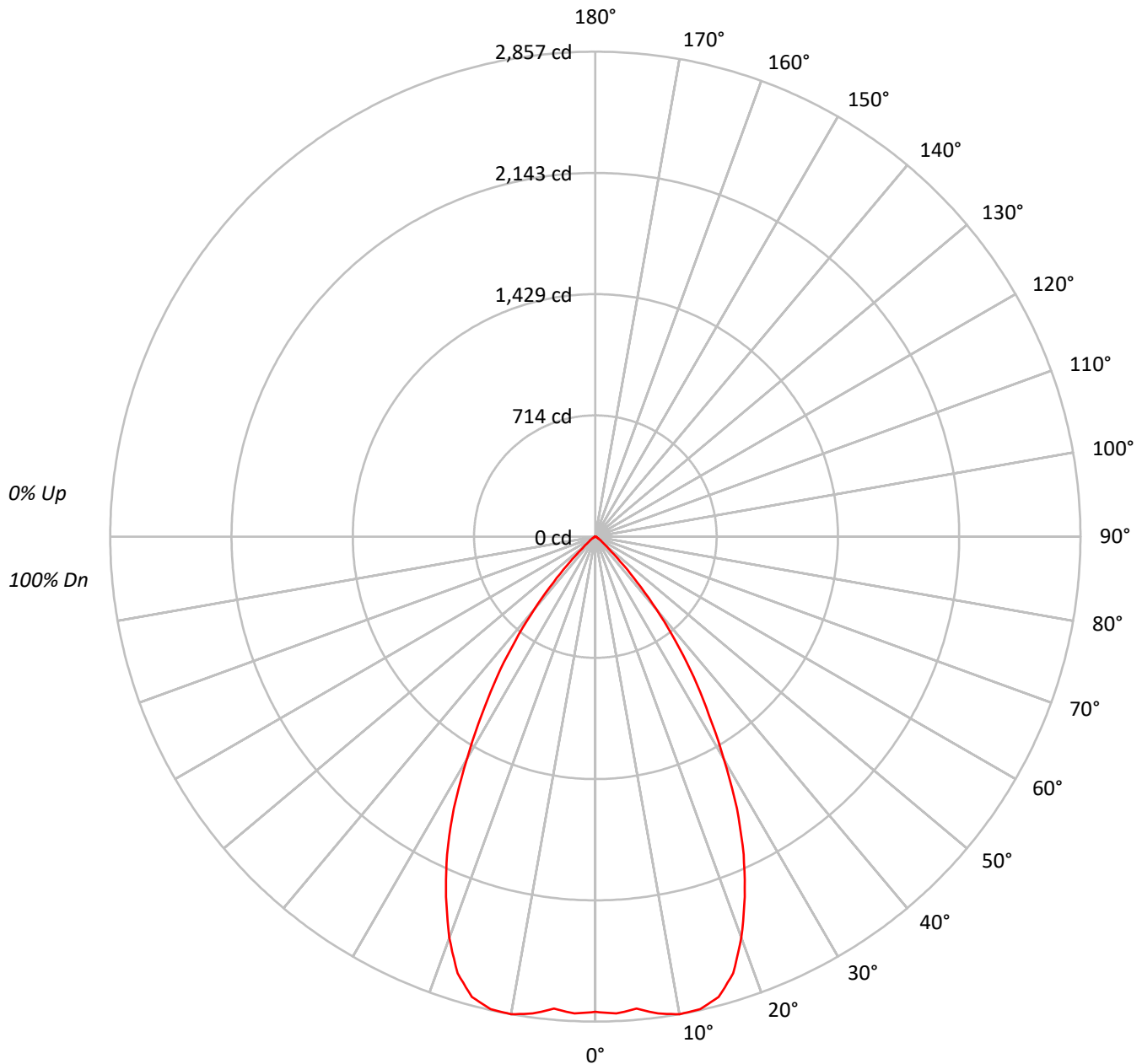


Downlight

TEST NUMBER: P784815

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69		
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65		
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60		
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57		
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53		
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	305952
5°	306210
10°	316985
15°	317514
20°	292322
25°	249068
30°	190671
35°	134703
40°	79516
45°	32279
50°	11695
55°	6515
60°	3737
65°	2068
70°	2172
75°	1689
80°	1762
85°	1504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32279 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	9.5
10°-20°	777.8	27.3
20°-30°	933.2	32.8
30°-40°	627.1	22.0
40°-50°	187.7	6.6
50°-60°	33.1	1.2
60°-70°	9.4	0.3
70°-80°	4.6	0.2
80°-90°	1.5	0.1
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°	1980.6	69.6
0°-40°	2607.7	91.7
0°-60°	2828.6	99.5
0°-90°	2844.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2800	
5°	2792	270
15°	2807	778
25°	2066	933
35°	1010	627
45°	209	188
55°	34	33
65°	8	9
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2800.2
2.5°	2812.2
5°	2791.9
7.5°	2834.0
10°	2857.1
12.5°	2851.5
15°	2807.0
17.5°	2697.9
20°	2514.1
22.5°	2297.6
25°	2066.0
27.5°	1804.6
30°	1511.3
32.5°	1245.5
35°	1009.9
37.5°	777.2
40°	557.5
42.5°	364.1
45°	208.9
47.5°	110.6
50°	68.8
52.5°	47.8
55°	34.2
57.5°	24.7
60°	17.1
62.5°	11.1
65°	8.0
67.5°	7.2
70°	6.8
72.5°	5.2
75°	4.0
77.5°	3.6
80°	2.8
82.5°	2.0
85°	1.2
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)