

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: P784558

Luminaire Tested: LER4DD35BD010-EC4DR6020359040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD35BD010-EC4DR6020359040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3559.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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

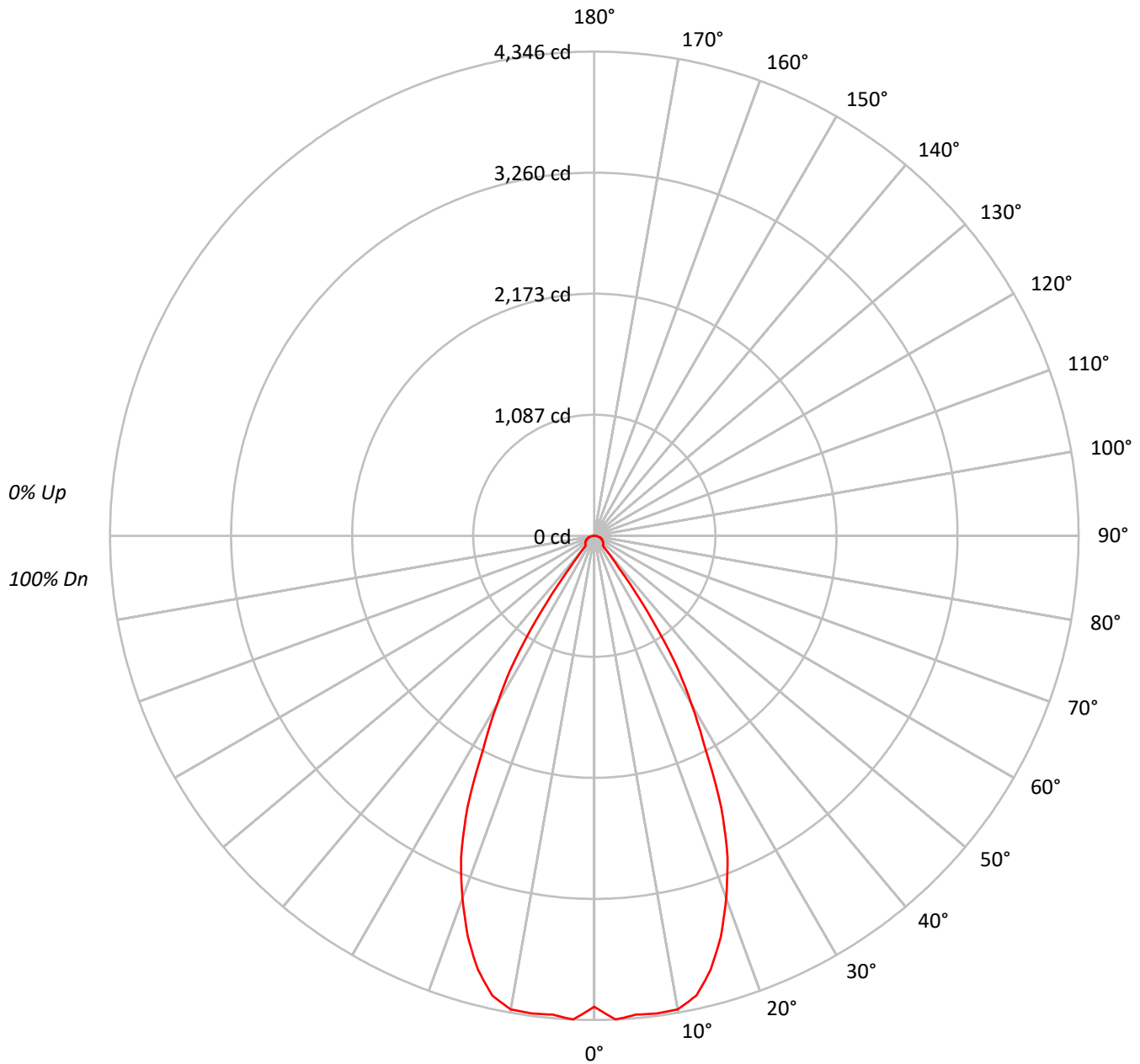


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93						
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86						
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80						
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75						
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70						
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66						
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62						
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59						
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55						
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	461867
5°	473228
10°	478944
15°	456250
20°	402281
25°	325368
30°	220092
35°	110281
40°	17886
45°	17507
50°	17865
55°	18135
60°	18640
65°	19054
70°	19519
75°	19757
80°	19065
85°	15921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 19757 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	11.6
10°-20°	1115.7	31.3
20°-30°	1200.4	33.7
30°-40°	521.8	14.7
40°-50°	87.6	2.5
50°-60°	85.2	2.4
60°-70°	72.9	2.0
70°-80°	48.8	1.4
80°-90°	14.6	0.4
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°	2728.5	76.7
0°-40°	3250.3	91.3
0°-60°	3423.1	96.2
0°-90°	3559.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4227	
5°	4315	412
15°	4034	1116
25°	2699	1200
35°	827	522
45°	113	88
55°	95	85
65°	74	73
75°	47	49
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4227.2
2.5°	4346.0
5°	4314.7
7.5°	4324.6
10°	4316.9
12.5°	4227.7
15°	4033.5
17.5°	3772.8
20°	3459.8
22.5°	3124.7
25°	2698.9
27.5°	2158.7
30°	1744.5
32.5°	1344.5
35°	826.8
37.5°	353.7
40°	125.4
42.5°	115.5
45°	113.3
47.5°	109.5
50°	105.1
52.5°	100.1
55°	95.2
57.5°	90.2
60°	85.3
62.5°	79.8
65°	73.7
67.5°	67.7
70°	61.1
72.5°	53.9
75°	46.8
77.5°	38.5
80°	30.3
82.5°	21.5
85°	12.7
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)