

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: P784801

Luminaire Tested: LER4DD40BD010-EC4DR6040509050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784801
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: LER4DD40BD010-EC4DR6040509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4019.1 lumens
Efficiency: N/A
Efficacy: 114.2 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): 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

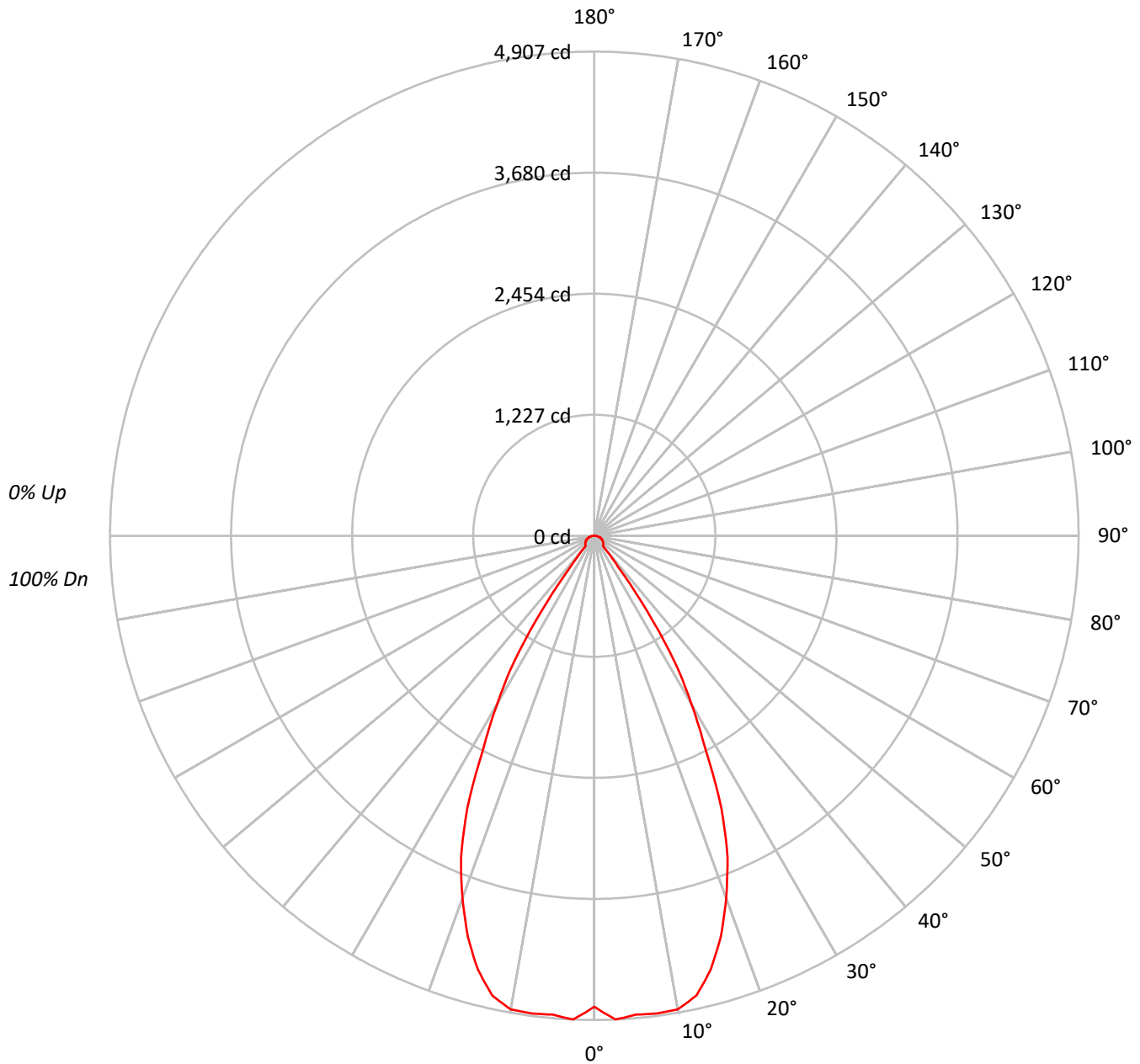


Downlight

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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	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°	521523
5°	534341
10°	540797
15°	515183
20°	454232
25°	367394
30°	248517
35°	124526
40°	20196
45°	19778
50°	20160
55°	20478
60°	21044
65°	21510
70°	22043
75°	22290
80°	21519
85°	17927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 22290 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	11.6
10°-20°	1259.8	31.3
20°-30°	1355.4	33.7
30°-40°	589.2	14.7
40°-50°	98.9	2.5
50°-60°	96.2	2.4
60°-70°	82.3	2.0
70°-80°	55.1	1.4
80°-90°	16.5	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°	3080.9	76.7
0°-40°	3670.1	91.3
0°-60°	3865.2	96.2
0°-90°	4019.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4019.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4773	
5°	4872	466
15°	4554	1260
25°	3048	1355
35°	934	589
45°	128	99
55°	108	96
65°	83	82
75°	53	55
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4773.2
2.5°	4907.3
5°	4871.9
7.5°	4883.1
10°	4874.4
12.5°	4773.8
15°	4554.5
17.5°	4260.1
20°	3906.6
22.5°	3528.3
25°	3047.5
27.5°	2437.5
30°	1969.8
32.5°	1518.2
35°	933.6
37.5°	399.4
40°	141.6
42.5°	130.4
45°	128.0
47.5°	123.6
50°	118.6
52.5°	113.1
55°	107.5
57.5°	101.9
60°	96.3
62.5°	90.1
65°	83.2
67.5°	76.4
70°	69.0
72.5°	60.9
75°	52.8
77.5°	43.5
80°	34.2
82.5°	24.2
85°	14.3
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)