

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: P785026

Luminaire Tested: LER4DD45BD010-EC4DR6040509027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785026
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: LER4DD45BD010-EC4DR6040509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.8 lumens
Efficiency: N/A
Efficacy: 108.8 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): 38.7
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

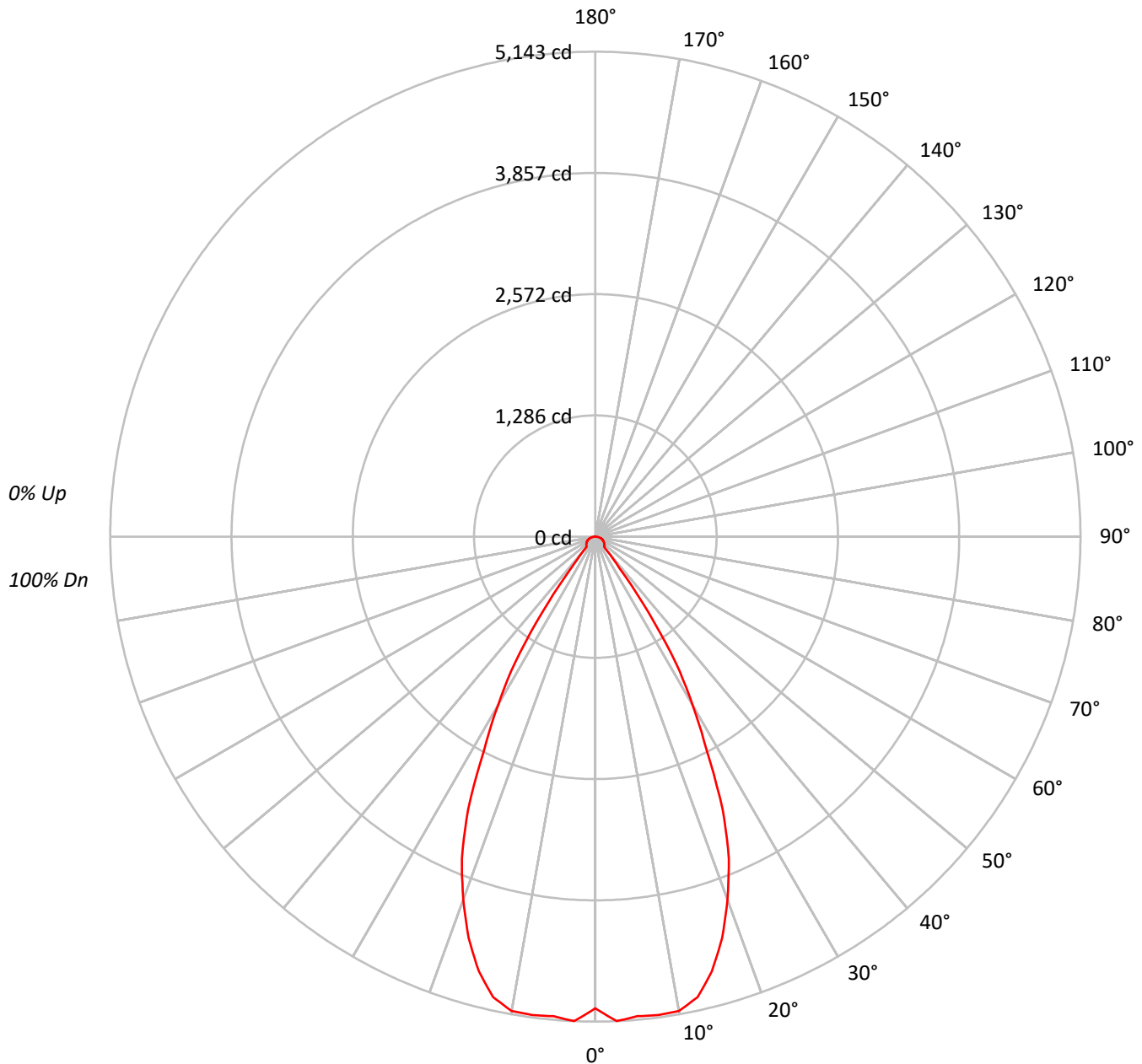


Downlight

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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	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°	546533
5°	559973
10°	566736
15°	539887
20°	476021
25°	385019
30°	260427
35°	130502
40°	21166
45°	20721
50°	21128
55°	21449
60°	22049
65°	22544
70°	23097
75°	23345
80°	22526
85°	18804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 23345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.0	11.6
10°-20°	1320.2	31.3
20°-30°	1420.4	33.7
30°-40°	617.4	14.7
40°-50°	103.7	2.5
50°-60°	100.8	2.4
60°-70°	86.3	2.0
70°-80°	57.7	1.4
80°-90°	17.3	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°	3228.6	76.7
0°-40°	3846.1	91.3
0°-60°	4050.6	96.2
0°-90°	4211.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5002	
5°	5106	488
15°	4773	1320
25°	3194	1420
35°	978	617
45°	134	104
55°	113	101
65°	87	86
75°	55	58
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5002.1
2.5°	5142.7
5°	5105.6
7.5°	5117.3
10°	5108.2
12.5°	5002.7
15°	4772.9
17.5°	4464.4
20°	4094.0
22.5°	3697.5
25°	3193.7
27.5°	2554.4
30°	2064.2
32.5°	1591.0
35°	978.4
37.5°	418.6
40°	148.4
42.5°	136.7
45°	134.1
47.5°	129.5
50°	124.3
52.5°	118.5
55°	112.6
57.5°	106.8
60°	100.9
62.5°	94.4
65°	87.2
67.5°	80.1
70°	72.3
72.5°	63.8
75°	55.3
77.5°	45.6
80°	35.8
82.5°	25.4
85°	15.0
87.5°	5.2
90°	0.0



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— 0°-180°







(END OF REPORT)