

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: P785037

Luminaire Tested: LER4DD45BD010-EC4DR6040509040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785037
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-EC4DR6040509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 4371.2 lumens
Efficiency: N/A
Efficacy: 113.0 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 (A_{in}): 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

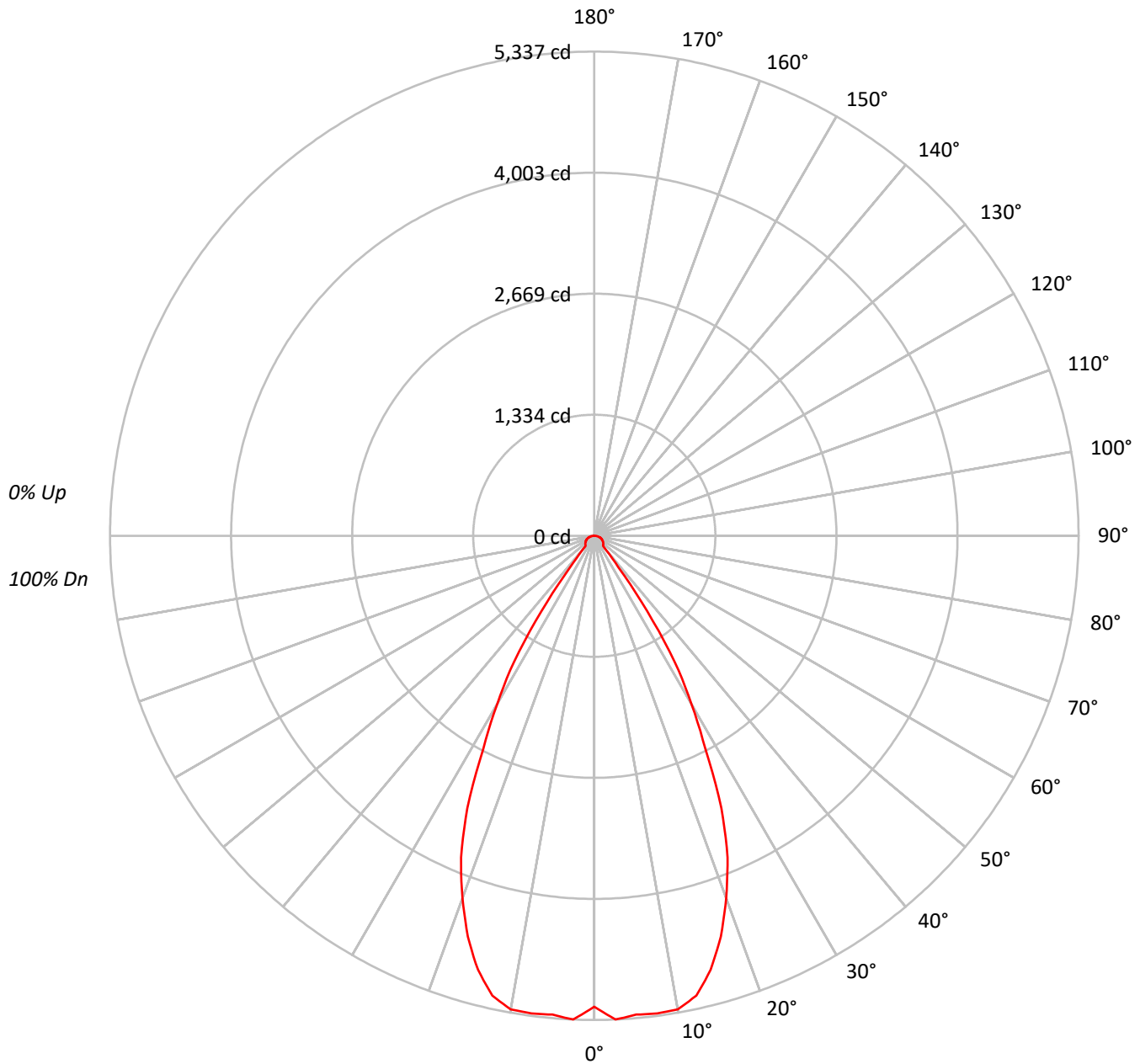


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	567216
5°	581162
10°	588182
15°	560327
20°	494032
25°	399583
30°	270293
35°	135437
40°	21965
45°	21509
50°	21927
55°	22268
60°	22879
65°	23397
70°	23959
75°	24231
80°	23407
85°	19431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 24231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.4	11.6
10°-20°	1370.2	31.3
20°-30°	1474.2	33.7
30°-40°	640.8	14.7
40°-50°	107.6	2.5
50°-60°	104.7	2.4
60°-70°	89.5	2.0
70°-80°	59.9	1.4
80°-90°	17.9	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°	3350.8	76.7
0°-40°	3991.6	91.3
0°-60°	4203.9	96.2
0°-90°	4371.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4371.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5191	
5°	5299	506
15°	4954	1370
25°	3314	1474
35°	1015	641
45°	139	108
55°	117	105
65°	90	90
75°	57	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5191.4
2.5°	5337.3
5°	5298.8
7.5°	5311.0
10°	5301.5
12.5°	5192.1
15°	4953.6
17.5°	4633.3
20°	4248.9
22.5°	3837.5
25°	3314.5
27.5°	2651.1
30°	2142.4
32.5°	1651.2
35°	1015.4
37.5°	434.4
40°	154.0
42.5°	141.9
45°	139.2
47.5°	134.4
50°	129.0
52.5°	123.0
55°	116.9
57.5°	110.8
60°	104.7
62.5°	98.0
65°	90.5
67.5°	83.1
70°	75.0
72.5°	66.2
75°	57.4
77.5°	47.3
80°	37.2
82.5°	26.3
85°	15.5
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)