

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: P785021

Luminaire Tested: LER4DD45BD010-EC4DR6040509024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785021
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-EC4DR6040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 91.5 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

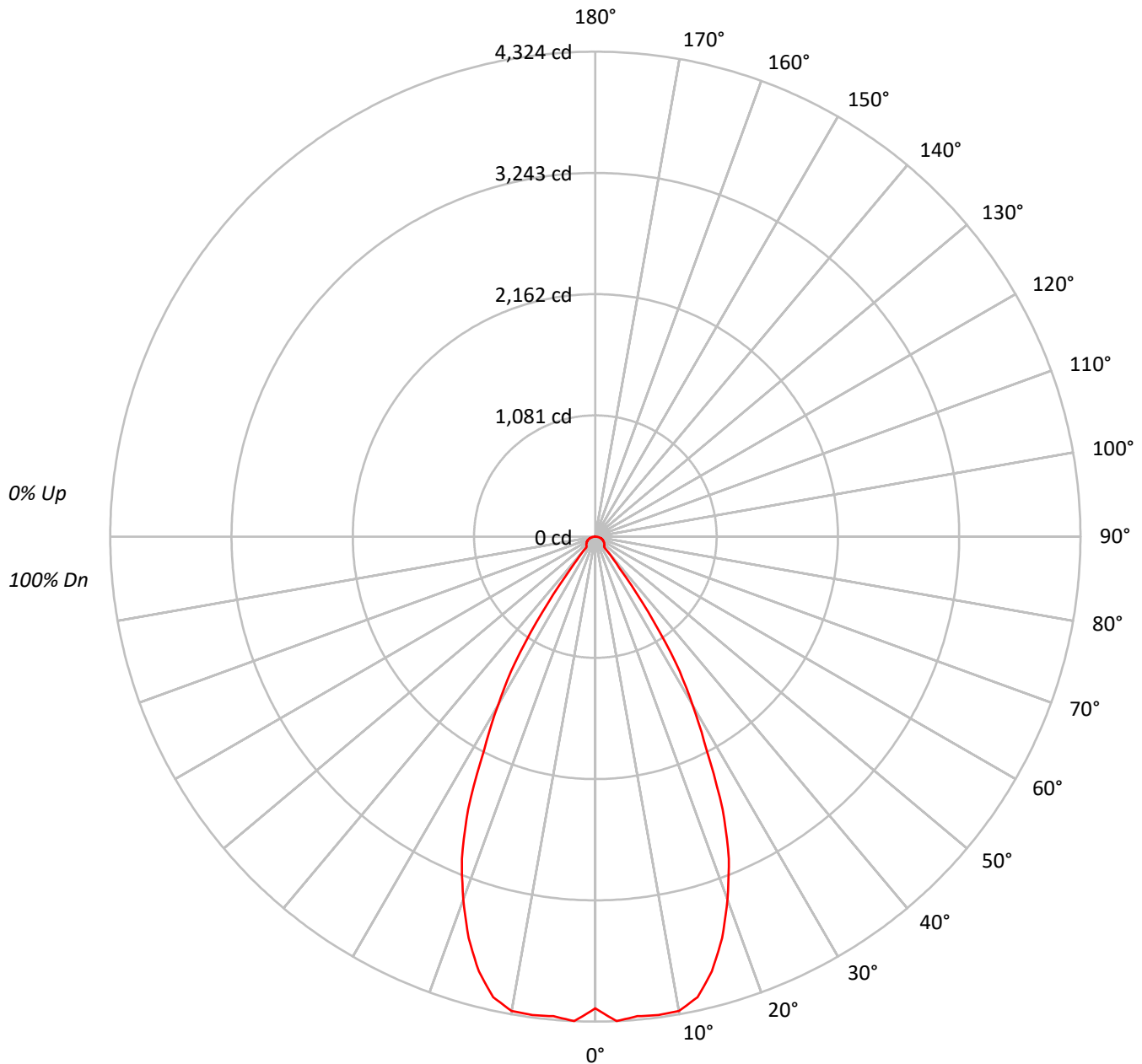


Downlight

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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
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°	459496
5°	470793
10°	476481
15°	453908
20°	400211
25°	323705
30°	218957
35°	109721
40°	17800
45°	17414
50°	17763
55°	18039
60°	18531
65°	18950
70°	19423
75°	19630
80°	18939
85°	15796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 19630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.3	11.6
10°-20°	1110.0	31.3
20°-30°	1194.2	33.7
30°-40°	519.1	14.7
40°-50°	87.2	2.5
50°-60°	84.8	2.4
60°-70°	72.5	2.0
70°-80°	48.5	1.4
80°-90°	14.5	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°	2714.5	76.7
0°-40°	3233.6	91.3
0°-60°	3405.5	96.2
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4206	
5°	4292	410
15°	4013	1110
25°	2685	1194
35°	823	519
45°	113	87
55°	95	85
65°	73	73
75°	46	49
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4205.5
2.5°	4323.7
5°	4292.5
7.5°	4302.3
10°	4294.7
12.5°	4206.0
15°	4012.8
17.5°	3753.4
20°	3442.0
22.5°	3108.7
25°	2685.1
27.5°	2147.6
30°	1735.5
32.5°	1337.6
35°	822.6
37.5°	351.9
40°	124.8
42.5°	114.9
45°	112.7
47.5°	108.9
50°	104.5
52.5°	99.6
55°	94.7
57.5°	89.8
60°	84.8
62.5°	79.4
65°	73.3
67.5°	67.3
70°	60.8
72.5°	53.6
75°	46.5
77.5°	38.3
80°	30.1
82.5°	21.3
85°	12.6
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)