

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: P785044

Luminaire Tested: LER4DD45BD010-EC4DR6540509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6540509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2304.7 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

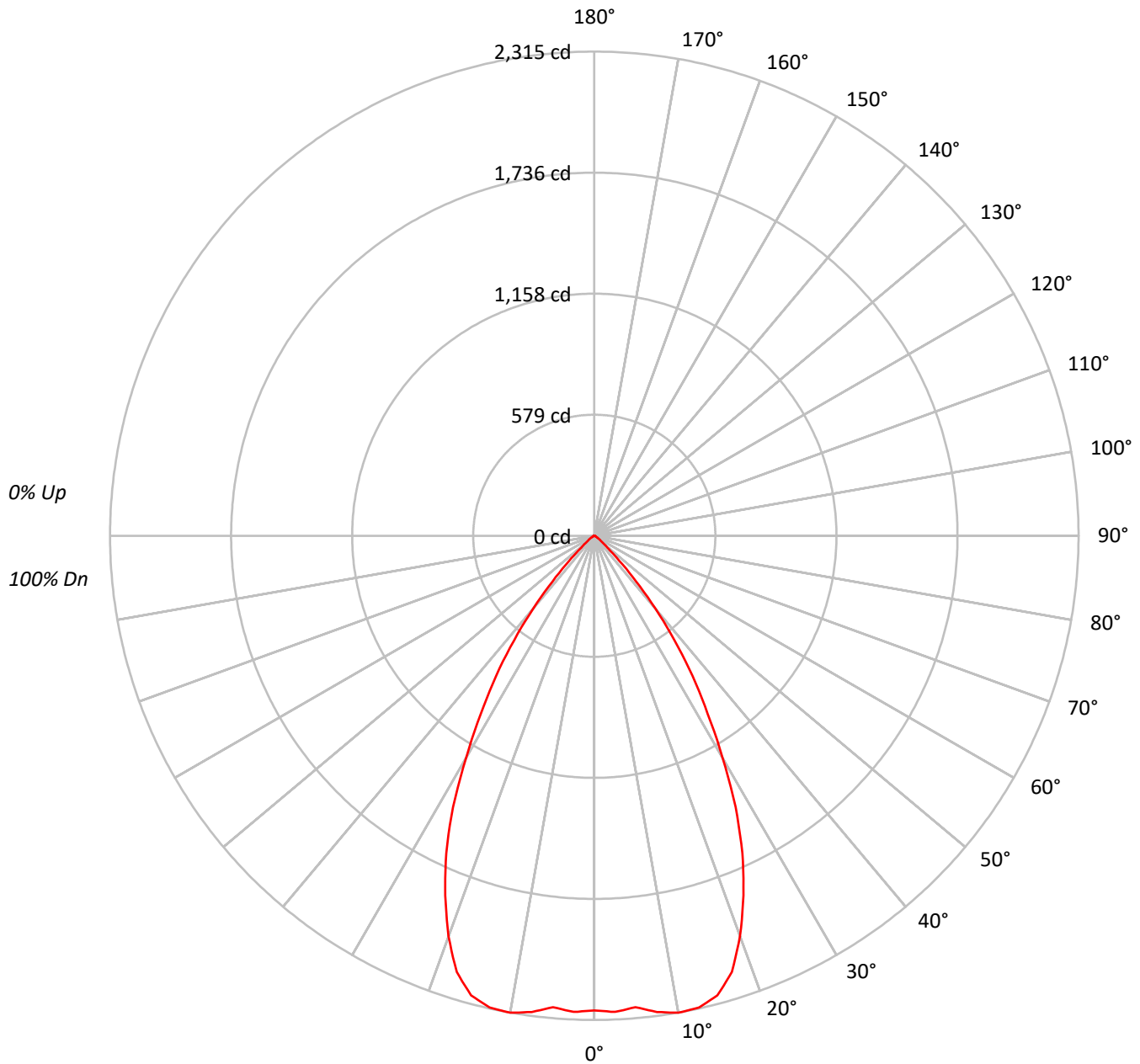


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106		111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95		106	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87		100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	79		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	83	78	73		90	83	77	73		81	76	72		79	75	72		77	74	71
6	87	78	72	68		86	77	72	68		76	71	67		74	70	67		73	69	66
7	83	73	67	63		81	73	67	63		71	66	62		70	66	62		69	65	62
8	79	69	63	59		77	68	63	59		67	62	58		66	62	58		65	61	58
9	75	65	59	55		74	65	59	55		64	58	55		63	58	55		62	58	54
10	71	61	56	52		70	61	55	52		60	55	51		59	55	51		59	54	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	247935
5°	248136
10°	256874
15°	257303
20°	236883
25°	201835
30°	154512
35°	109160
40°	64440
45°	26160
50°	9485
55°	5277
60°	3037
65°	1655
70°	1757
75°	1351
80°	1447
85°	1254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26160 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	9.5
10°-20°	630.3	27.3
20°-30°	756.2	32.8
30°-40°	508.2	22.1
40°-50°	152.1	6.6
50°-60°	26.8	1.2
60°-70°	7.6	0.3
70°-80°	3.7	0.2
80°-90°	1.2	0.1
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°	1605.0	69.6
0°-40°	2113.2	91.7
0°-60°	2292.2	99.5
0°-90°	2304.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2269	
5°	2262	219
15°	2275	630
25°	1674	756
35°	818	508
45°	169	152
55°	28	27
65°	6	8
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2269.2
2.5°	2278.9
5°	2262.4
7.5°	2296.6
10°	2315.3
12.5°	2310.8
15°	2274.7
17.5°	2186.3
20°	2037.3
22.5°	1861.9
25°	1674.2
27.5°	1462.4
30°	1224.7
32.5°	1009.3
35°	818.4
37.5°	629.8
40°	451.8
42.5°	295.1
45°	169.3
47.5°	89.6
50°	55.8
52.5°	38.7
55°	27.7
57.5°	20.0
60°	13.9
62.5°	9.0
65°	6.4
67.5°	5.8
70°	5.5
72.5°	4.2
75°	3.2
77.5°	2.9
80°	2.3
82.5°	1.6
85°	1.0
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)