

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: P785070

Luminaire Tested: LER4DD45BD010-EC4DR7040509024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR7040509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3742.5 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

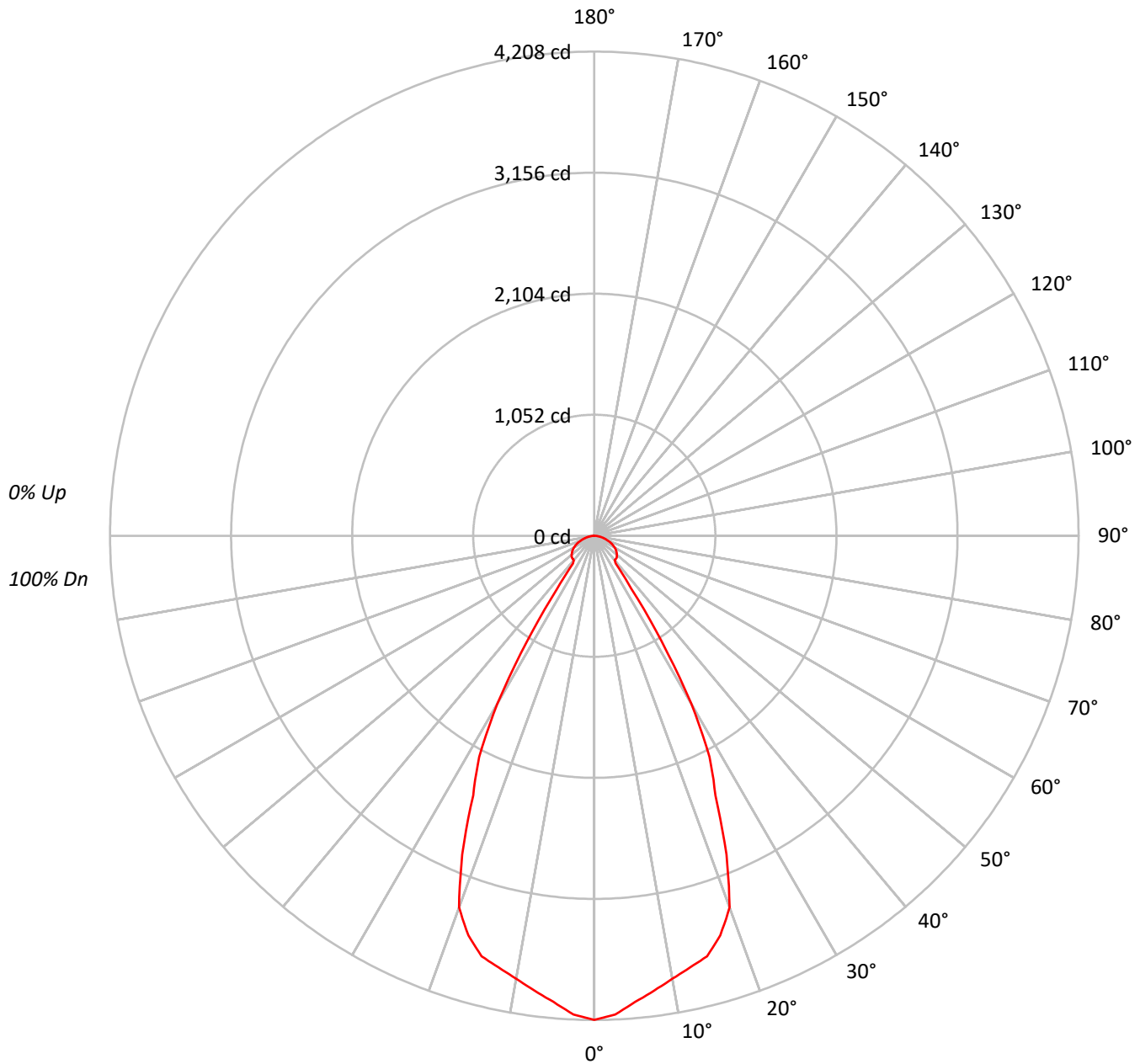


Downlight

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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	459736
5°	446072
10°	433634
15°	427948
20°	399618
25°	300208
30°	212220
35°	75175
40°	39523
45°	42106
50°	43600
55°	44422
60°	44688
65°	43744
70°	41274
75°	38247
80°	33977
85°	27580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 44697 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.6	10.3
10°-20°	1052.2	28.1
20°-30°	1158.9	31.0
30°-40°	442.8	11.8
40°-50°	209.1	5.6
50°-60°	207.9	5.6
60°-70°	166.4	4.4
70°-80°	95.7	2.6
80°-90°	26.0	0.7
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°	2594.7	69.3
0°-40°	3037.5	81.2
0°-60°	3454.5	92.3
0°-90°	3742.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3742.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4208	
5°	4067	384
15°	3783	1052
25°	2490	1159
35°	564	443
45°	272	209
55°	233	208
65°	169	166
75°	91	96
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4207.7
2.5°	4163.7
5°	4067.1
7.5°	3986.5
10°	3908.5
12.5°	3842.6
15°	3783.3
17.5°	3640.1
20°	3436.9
22.5°	2998.5
25°	2490.2
27.5°	2167.8
30°	1682.1
32.5°	1086.6
35°	563.6
37.5°	304.4
40°	277.1
42.5°	275.1
45°	272.5
47.5°	266.5
50°	256.5
52.5°	245.2
55°	233.2
57.5°	219.8
60°	204.5
62.5°	187.2
65°	169.2
67.5°	149.2
70°	129.2
72.5°	109.3
75°	90.6
77.5°	71.3
80°	54.0
82.5°	38.0
85°	22.0
87.5°	8.7
90°	0.0



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— 0°-180°







(END OF REPORT)