

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: P785072

Luminaire Tested: LER4DD45BD010-EC4DR7040509027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785072
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-EC4DR7040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2349.2 lumens
Efficiency: N/A
Efficacy: 60.7 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

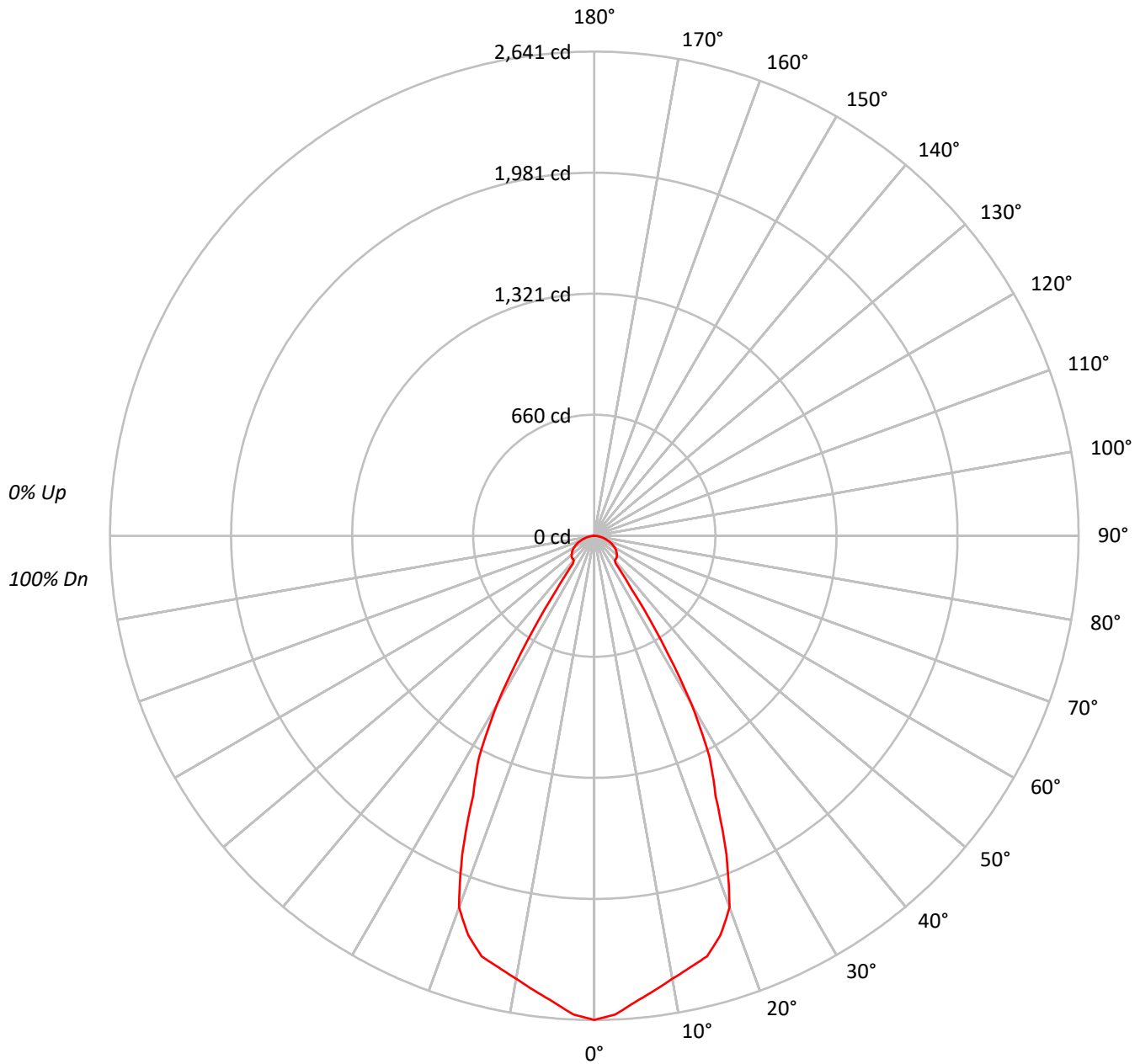


Downlight

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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					0
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	112	109	106	103	110	107	104	102		103	101	99		99	97	96		95	94	93
2	106	100	95	91	103	98	94	90		95	91	88		92	89	86		89	87	85
3	100	92	87	82	98	91	86	81		88	84	80		86	82	79		83	80	78
4	94	86	80	75	92	85	79	74		82	77	73		80	76	73		78	75	72
5	89	80	74	69	87	79	73	69		77	72	68		75	71	67		74	70	67
6	85	75	68	64	83	74	68	64		73	67	63		71	66	63		70	66	62
7	80	70	64	59	79	70	64	59		68	63	59		67	62	59		66	62	58
8	77	66	60	56	75	66	60	56		65	59	55		64	59	55		63	58	55
9	73	63	57	52	72	62	56	52		61	56	52		60	55	52		60	55	52
10	70	59	53	49	69	59	53	49		58	53	49		57	52	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288569
5°	279997
10°	272196
15°	268614
20°	250835
25°	188441
30°	133216
35°	47191
40°	24818
45°	26423
50°	27367
55°	27888
60°	28058
65°	27456
70°	25908
75°	24020
80°	21330
85°	17300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 28063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	10.3
10°-20°	660.5	28.1
20°-30°	727.4	31.0
30°-40°	277.9	11.8
40°-50°	131.2	5.6
50°-60°	130.5	5.6
60°-70°	104.5	4.4
70°-80°	60.0	2.6
80°-90°	16.3	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°	1628.7	69.3
0°-40°	1906.6	81.2
0°-60°	2168.4	92.3
0°-90°	2349.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2641	
5°	2553	241
15°	2375	660
25°	1563	727
35°	354	278
45°	171	131
55°	146	130
65°	106	104
75°	57	60
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2641.1
2.5°	2613.5
5°	2552.9
7.5°	2502.3
10°	2453.4
12.5°	2412.0
15°	2374.7
17.5°	2284.8
20°	2157.3
22.5°	1882.1
25°	1563.1
27.5°	1360.7
30°	1055.9
32.5°	682.0
35°	353.8
37.5°	191.1
40°	174.0
42.5°	172.7
45°	171.0
47.5°	167.3
50°	161.0
52.5°	153.9
55°	146.4
57.5°	138.0
60°	128.4
62.5°	117.5
65°	106.2
67.5°	93.7
70°	81.1
72.5°	68.6
75°	56.9
77.5°	44.7
80°	33.9
82.5°	23.8
85°	13.8
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)