

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: P784824

Luminaire Tested: LER4DD40BD010-EC4DR6540509050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784824
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: LER4DD40BD010-EC4DR6540509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2615.9 lumens
Efficiency: N/A
Efficacy: 74.3 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): 35.2
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

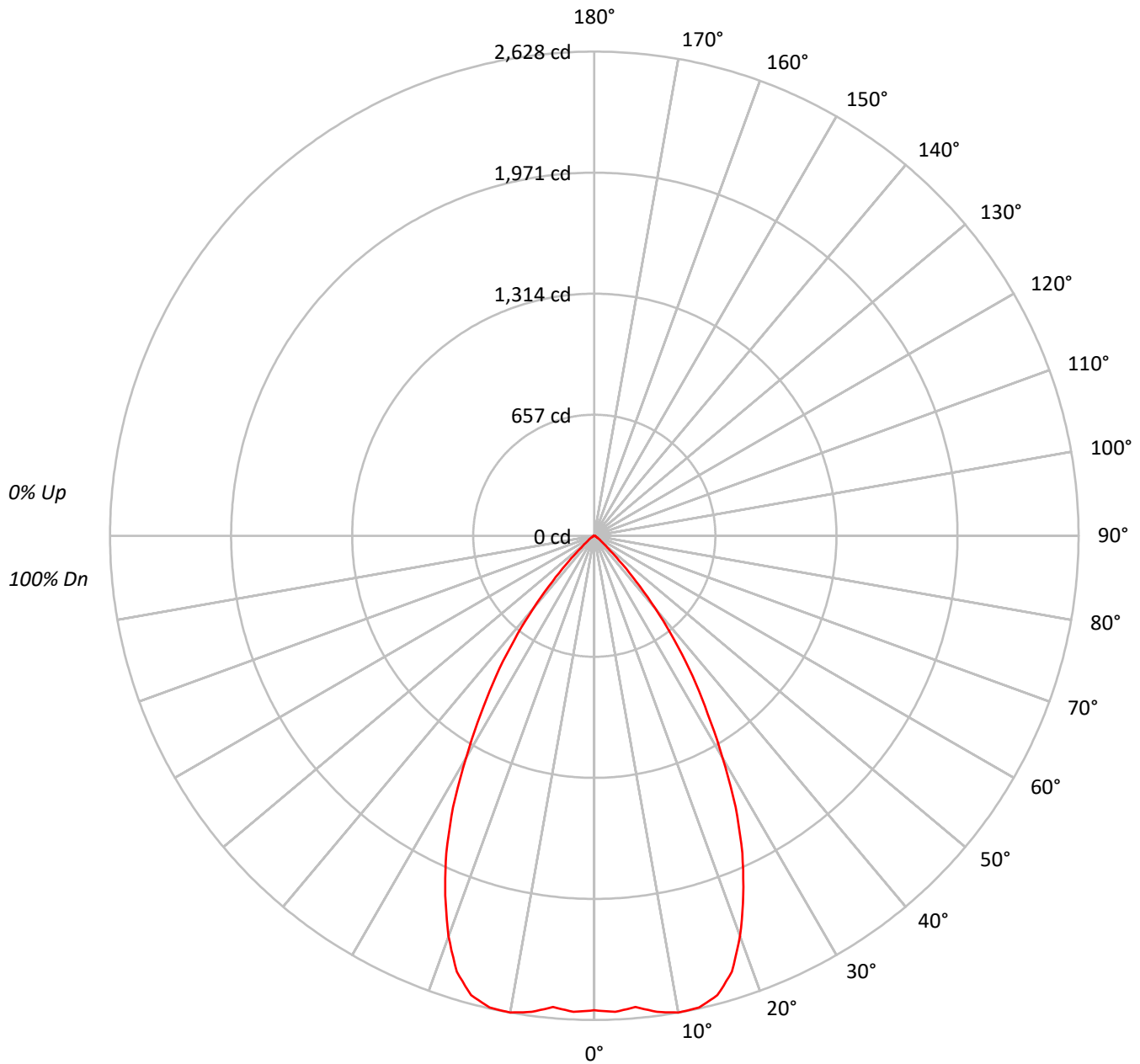


Downlight

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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°	281401
5°	281631
10°	291545
15°	292029
20°	268869
25°	229080
30°	175380
35°	123899
40°	73141
45°	29683
50°	10760
55°	6000
60°	3431
65°	1887
70°	1981
75°	1562
80°	1636
85°	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29683 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	9.5
10°-20°	715.4	27.3
20°-30°	858.3	32.8
30°-40°	576.8	22.1
40°-50°	172.7	6.6
50°-60°	30.5	1.2
60°-70°	8.6	0.3
70°-80°	4.3	0.2
80°-90°	1.3	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°	1821.7	69.6
0°-40°	2398.5	91.7
0°-60°	2601.6	99.5
0°-90°	2615.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2615.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2576	
5°	2568	248
15°	2582	715
25°	1900	858
35°	929	577
45°	192	173
55°	32	30
65°	7	9
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2575.5
2.5°	2586.5
5°	2567.8
7.5°	2606.6
10°	2627.8
12.5°	2622.7
15°	2581.7
17.5°	2481.4
20°	2312.4
22.5°	2113.3
25°	1900.2
27.5°	1659.8
30°	1390.1
32.5°	1145.6
35°	928.9
37.5°	714.8
40°	512.8
42.5°	334.9
45°	192.1
47.5°	101.7
50°	63.3
52.5°	43.9
55°	31.5
57.5°	22.7
60°	15.7
62.5°	10.2
65°	7.3
67.5°	6.6
70°	6.2
72.5°	4.8
75°	3.7
77.5°	3.3
80°	2.6
82.5°	1.8
85°	1.1
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)