

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: P747677

Luminaire Tested: LD4D40BD010-EU4DR3540509050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR3540509050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4230.9 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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

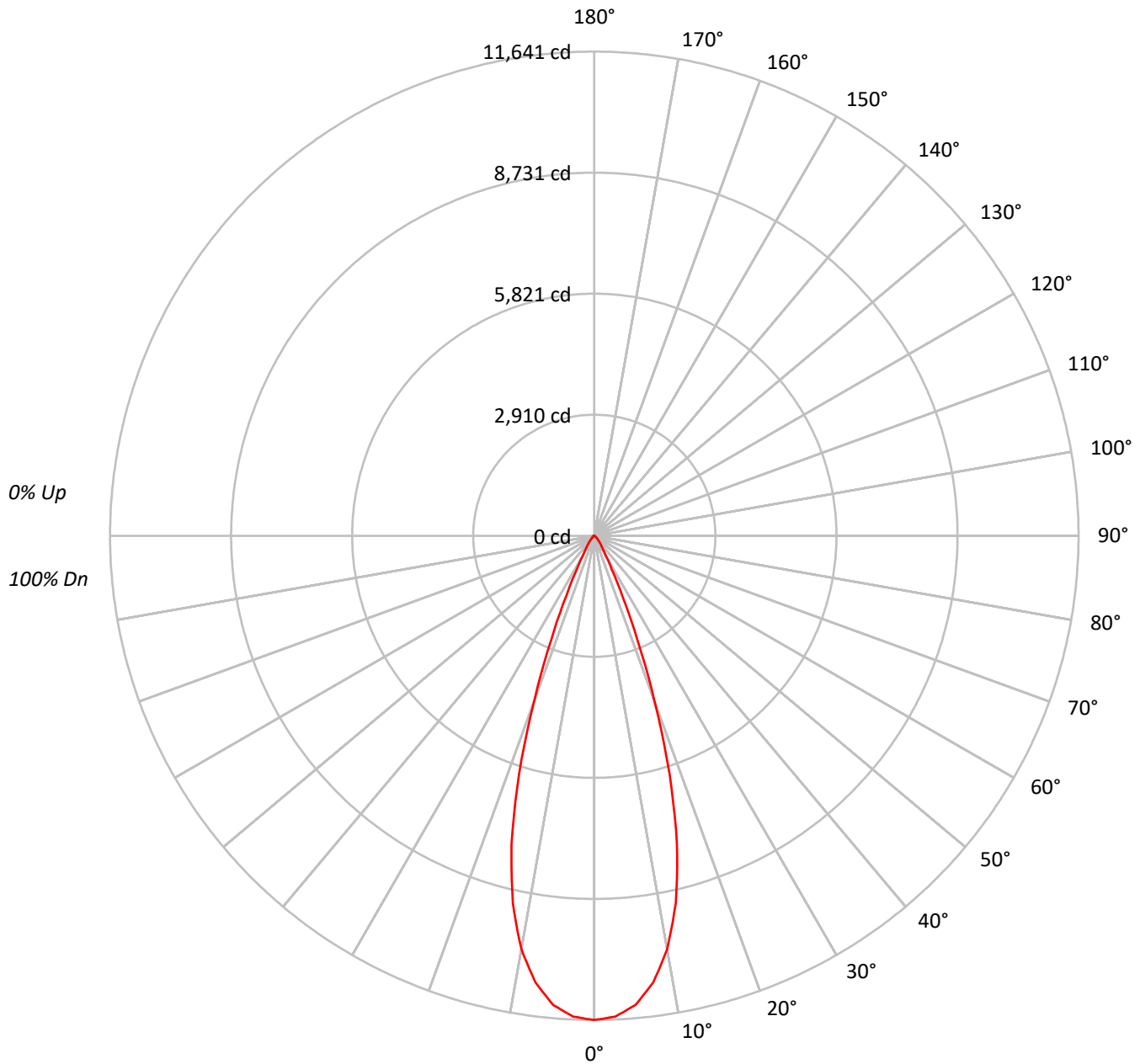


Downlight

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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	115	112	110	108		112	110	108	107		106	105	103			103	101	100			96
2	110	106	103	101		108	105	102	99		102	99	97			99	97	95			92
3	106	101	97	94		105	100	96	93		97	95	92			95	93	91			88
4	103	97	92	89		101	96	92	89		94	90	88			92	89	87			84
5	99	93	88	85		98	92	87	84		90	86	84			89	85	83			81
6	96	89	84	81		94	88	84	81		87	83	80			85	82	80			78
7	93	85	81	78		91	85	80	77		84	80	77			83	79	77			75
8	90	82	78	74		88	82	77	74		81	77	74			80	76	74			72
9	87	79	75	72		86	79	75	72		78	74	71			77	74	71			70
10	84	77	72	69		83	76	72	69		76	72	69			75	71	69			68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1271948
5°	1242061
10°	1119426
15°	868859
20°	492799
25°	191720
30°	71522
35°	39201
40°	25631
45°	15591
50°	9927
55°	7010
60°	5135
65°	2792
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15591 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1041.5	24.6
10°-20°	2033.5	48.1
20°-30°	829.3	19.6
30°-40°	198.5	4.7
40°-50°	82.7	2.0
50°-60°	34.2	0.8
60°-70°	10.7	0.3
70°-80°	0.2	0.0
80°-90°	0.2	0.0
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°	3904.4	92.3
0°-40°	4102.9	97.0
0°-60°	4219.8	99.7
0°-90°	4230.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11641	
5°	11325	###
15°	7681	2034
25°	1590	829
35°	294	198
45°	101	83
55°	37	34
65°	11	11
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11641.4
2.5°	11571.6
5°	11324.6
7.5°	10832.0
10°	10089.8
12.5°	9044.9
15°	7681.2
17.5°	6013.4
20°	4238.3
22.5°	2702.6
25°	1590.3
27.5°	899.0
30°	566.9
32.5°	398.1
35°	293.9
37.5°	227.3
40°	179.7
42.5°	138.4
45°	100.9
47.5°	75.5
50°	58.4
52.5°	46.3
55°	36.8
57.5°	29.8
60°	23.5
62.5°	17.1
65°	10.8
67.5°	3.8
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)