

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: P752652

Luminaire Tested: LD4D70BD010-EU4DR5570959040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR5570959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7703.6 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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

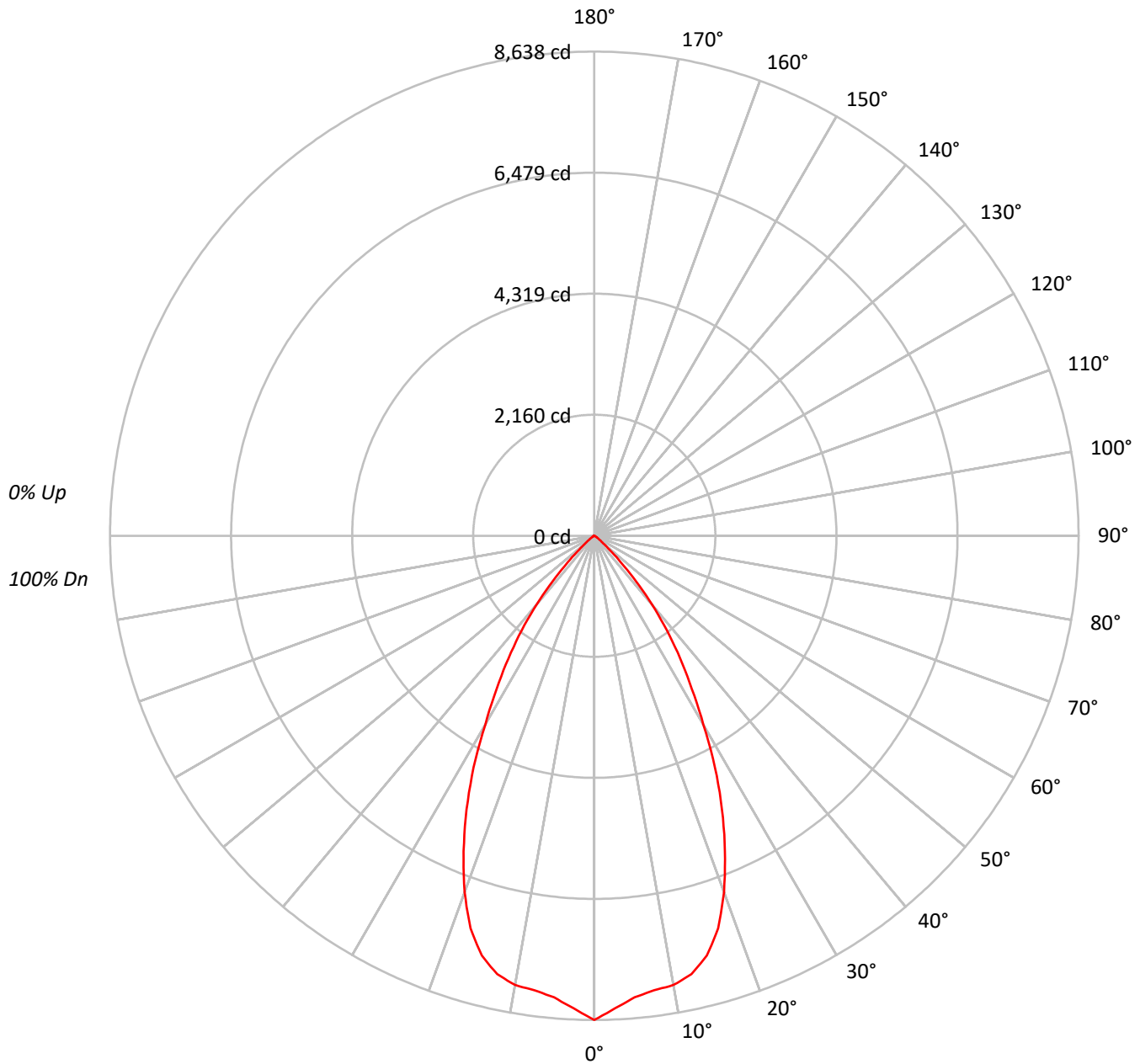


Downlight

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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	114	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68		86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	64		82	73	67	63		72	67	63		71	66	63		70	65	62
8	79	69	63	59		78	69	63	59		68	63	59		67	62	59		66	62	58
9	75	66	60	56		74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52		71	61	56	52		61	56	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	943838
5°	906347
10°	902936
15°	876992
20°	786353
25°	649881
30°	490902
35°	355945
40°	227794
45°	104037
50°	34030
55°	14687
60°	6315
65°	827
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 104037 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.3	10.2
10°-20°	2146.1	27.9
20°-30°	2445.6	31.7
30°-40°	1664.9	21.6
40°-50°	573.7	7.4
50°-60°	79.3	1.0
60°-70°	7.7	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	5378.0	69.8
0°-40°	7042.9	91.4
0°-60°	7695.9	99.9
0°-90°	7703.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7703.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8638	
5°	8264	786
15°	7753	2146
25°	5391	2446
35°	2669	1665
45°	673	574
55°	77	79
65°	3	8
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8638.4
2.5°	8440.3
5°	8263.7
7.5°	8177.0
10°	8138.5
12.5°	8010.0
15°	7753.1
17.5°	7345.3
20°	6763.0
22.5°	6090.7
25°	5390.7
27.5°	4661.7
30°	3891.0
32.5°	3238.0
35°	2668.6
37.5°	2126.9
40°	1597.1
42.5°	1106.8
45°	673.3
47.5°	362.9
50°	200.2
52.5°	118.8
55°	77.1
57.5°	49.2
60°	28.9
62.5°	12.8
65°	3.2
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)