

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: P752715

Luminaire Tested: LD4D70BD010-EU4DR6070959035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412.9 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

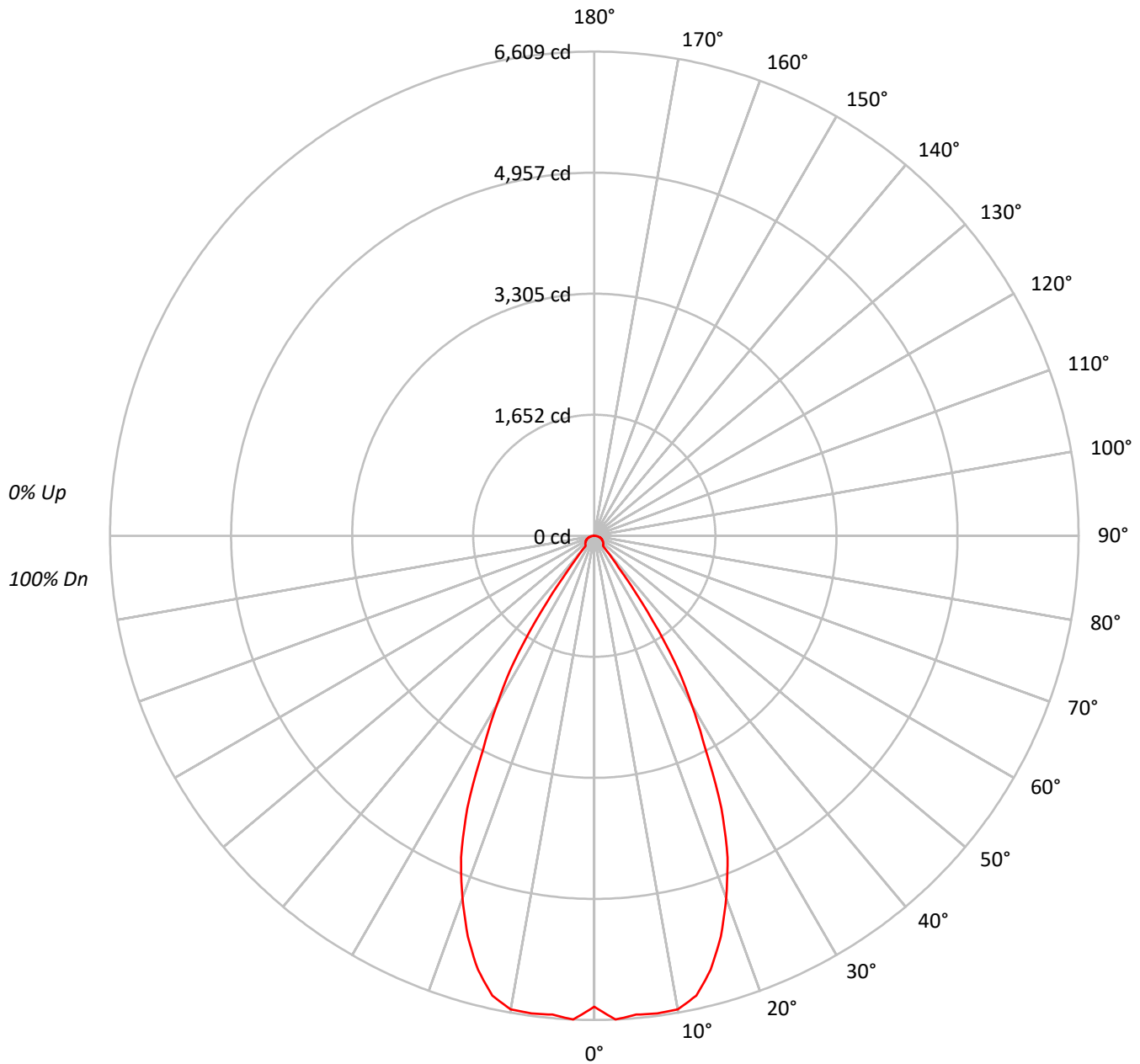


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	702394
5°	719664
10°	728362
15°	693859
20°	611770
25°	494822
30°	334699
35°	167715
40°	27200
45°	26623
50°	27163
55°	27564
60°	28342
65°	28982
70°	29678
75°	30015
80°	28944
85°	24070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 30015 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.1	11.6
10°-20°	1696.7	31.3
20°-30°	1825.5	33.7
30°-40°	793.5	14.7
40°-50°	133.3	2.5
50°-60°	129.6	2.4
60°-70°	110.8	2.0
70°-80°	74.2	1.4
80°-90°	22.2	0.4
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°	4149.4	76.7
0°-40°	4942.9	91.3
0°-60°	5205.8	96.2
0°-90°	5412.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5412.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6429	
5°	6562	627
15°	6134	1697
25°	4104	1826
35°	1257	794
45°	172	133
55°	145	130
65°	112	111
75°	71	74
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6428.6
2.5°	6609.3
5°	6561.6
7.5°	6576.7
10°	6565.0
12.5°	6429.4
15°	6134.1
17.5°	5737.5
20°	5261.5
22.5°	4752.0
25°	4104.5
27.5°	3282.9
30°	2652.9
32.5°	2044.7
35°	1257.4
37.5°	537.9
40°	190.7
42.5°	175.7
45°	172.3
47.5°	166.5
50°	159.8
52.5°	152.3
55°	144.7
57.5°	137.2
60°	129.7
62.5°	121.3
65°	112.1
67.5°	102.9
70°	92.9
72.5°	82.0
75°	71.1
77.5°	58.6
80°	46.0
82.5°	32.6
85°	19.2
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)