

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: P752523

Luminaire Tested: LD4D70BD010-EU4DR5070959024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR5070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5734.6 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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

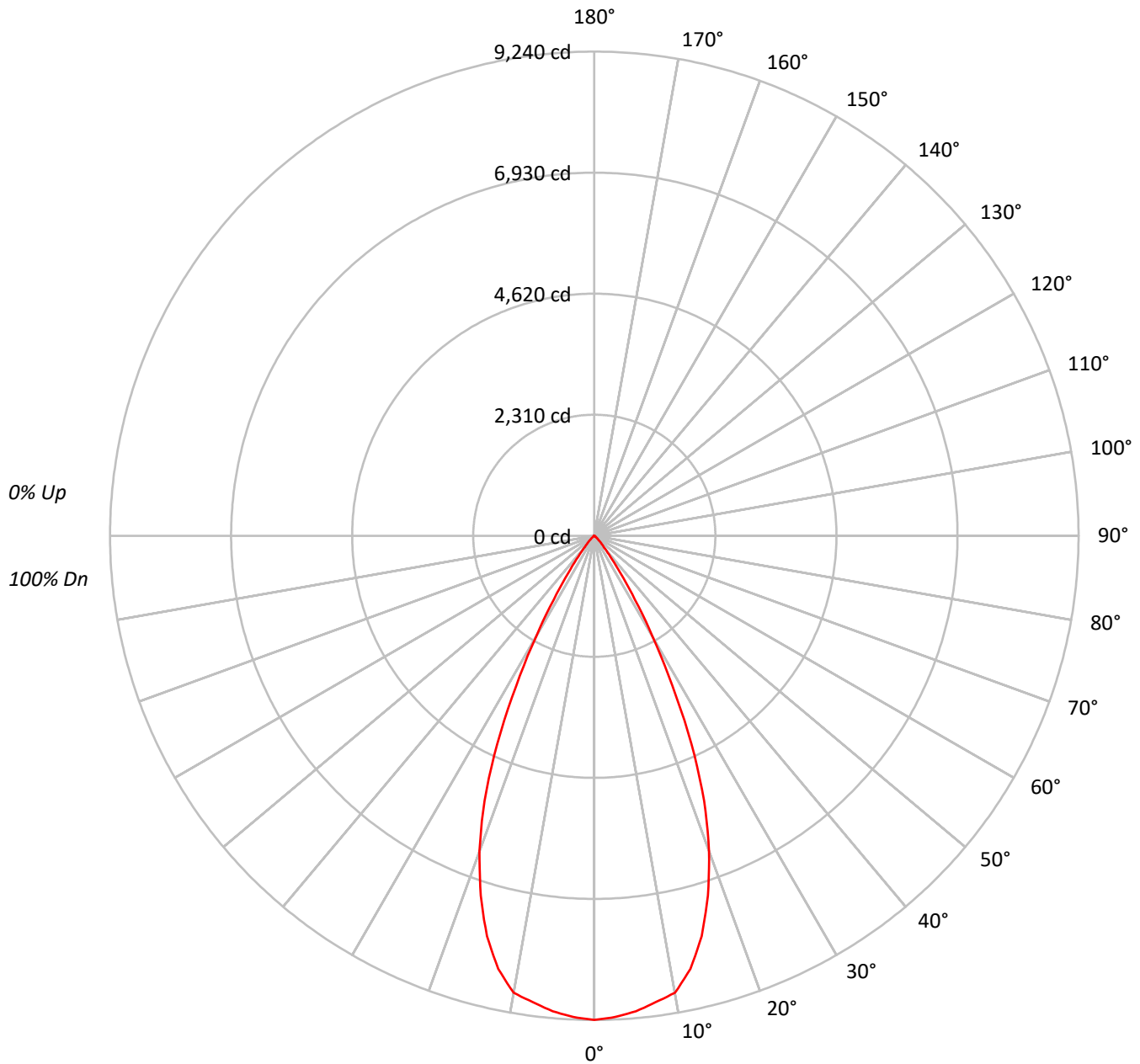


Downlight

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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					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	114	112	109	107	112	110	108	106		106	104	102		102	101	99		98	97	97
2	109	105	101	98	107	103	100	97		100	98	95		97	95	93		95	93	91
3	105	99	95	91	103	98	94	90		95	92	89		93	90	88		91	88	86
4	100	94	89	85	99	93	88	85		90	87	84		89	85	83		87	84	82
5	96	89	84	80	95	88	83	79		86	82	79		85	81	78		83	80	77
6	92	84	79	75	91	83	79	75		82	78	74		81	77	74		79	76	74
7	88	80	75	71	87	79	74	71		78	74	71		77	73	70		76	73	70
8	85	76	71	67	84	76	71	67		75	70	67		74	70	67		73	69	66
9	81	73	68	64	80	72	67	64		71	67	64		71	67	64		70	66	63
10	78	70	64	61	77	69	64	61		68	64	61		68	64	61		67	63	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1009558
5°	998970
10°	982518
15°	894661
20°	744460
25°	528457
30°	279717
35°	113989
40°	42333
45°	19377
50°	7938
55°	4153
60°	2032
65°	595
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.9	15.0
10°-20°	2175.7	37.9
20°-30°	1954.4	34.1
30°-40°	611.9	10.7
40°-50°	107.1	1.9
50°-60°	21.3	0.4
60°-70°	3.2	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°	4991.0	87.0
0°-40°	5602.9	97.7
0°-60°	5731.3	99.9
0°-90°	5734.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5734.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9240	
5°	9108	861
15°	7909	2176
25°	4384	1954
35°	855	612
45°	125	107
55°	22	21
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9239.9
2.5°	9193.9
5°	9108.2
7.5°	8977.4
10°	8855.8
12.5°	8466.3
15°	7909.3
17.5°	7202.0
20°	6402.7
22.5°	5478.0
25°	4383.5
27.5°	3222.8
30°	2217.1
32.5°	1443.5
35°	854.6
37.5°	490.8
40°	296.8
42.5°	193.2
45°	125.4
47.5°	76.3
50°	46.7
52.5°	31.9
55°	21.8
57.5°	14.8
60°	9.3
62.5°	5.5
65°	2.3
67.5°	0.8
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)