

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: P752822

Luminaire Tested: LD4D70BD010-EU4DR6570959050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752822
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: LD4D70BD010-EU4DR6570959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5463.1 lumens
Efficiency: N/A
Efficacy: 82.0 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): 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

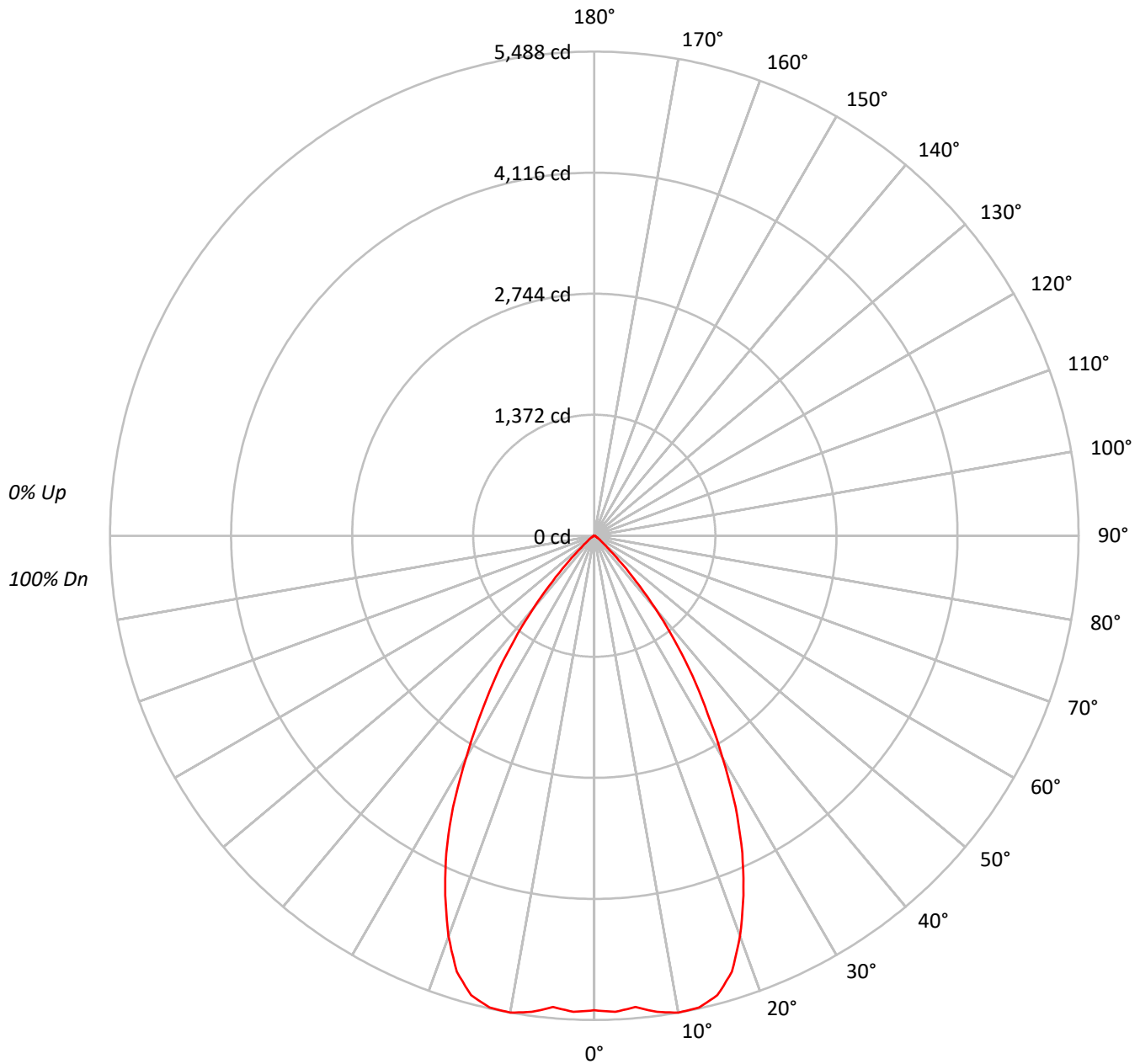


Downlight

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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	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°	587692
5°	588171
10°	608884
15°	609894
20°	561505
25°	478426
30°	366253
35°	258749
40°	152742
45°	62008
50°	22471
55°	12515
60°	7189
65°	3956
70°	4153
75°	3208
80°	3398
85°	2883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 62008 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.9	9.5
10°-20°	1494.0	27.3
20°-30°	1792.5	32.8
30°-40°	1204.6	22.1
40°-50°	360.6	6.6
50°-60°	63.6	1.2
60°-70°	18.1	0.3
70°-80°	8.9	0.2
80°-90°	2.8	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°	3804.4	69.6
0°-40°	5009.0	91.7
0°-60°	5433.3	99.5
0°-90°	5463.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5463.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5379	
5°	5363	518
15°	5392	1494
25°	3968	1793
35°	1940	1205
45°	401	361
55°	66	64
65°	15	18
75°	8	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5378.8
2.5°	5401.7
5°	5362.7
7.5°	5443.7
10°	5488.1
12.5°	5477.4
15°	5391.8
17.5°	5182.3
20°	4829.2
22.5°	4413.4
25°	3968.5
27.5°	3466.4
30°	2903.0
32.5°	2392.4
35°	1939.9
37.5°	1492.8
40°	1070.9
42.5°	699.4
45°	401.3
47.5°	212.5
50°	132.2
52.5°	91.7
55°	65.7
57.5°	47.4
60°	32.9
62.5°	21.4
65°	15.3
67.5°	13.8
70°	13.0
72.5°	9.9
75°	7.6
77.5°	6.9
80°	5.4
82.5°	3.8
85°	2.3
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)