

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: P752819

Luminaire Tested: LD4D70BD010-EU4DR6570959050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752819
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-EU4DR6570959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.6 lumens
Efficiency: N/A
Efficacy: 70.8 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

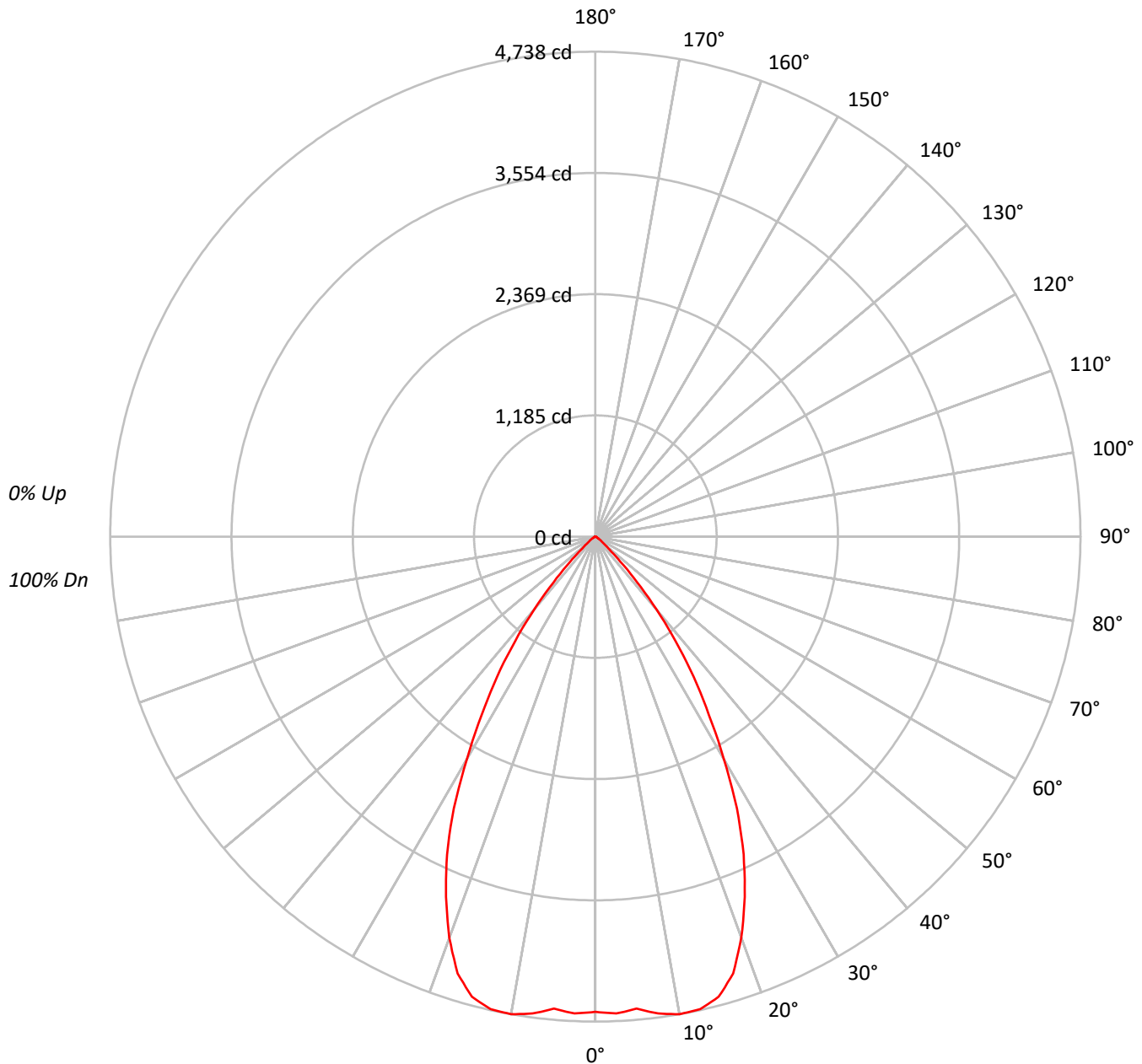


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	507385
5°	507799
10°	525675
15°	526551
20°	484776
25°	413049
30°	316203
35°	223389
40°	131861
45°	53541
50°	19412
55°	10820
60°	6206
65°	3413
70°	3578
75°	2786
80°	2894
85°	2507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53541 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	9.5
10°-20°	1289.8	27.3
20°-30°	1547.6	32.8
30°-40°	1040.0	22.0
40°-50°	311.3	6.6
50°-60°	55.0	1.2
60°-70°	15.6	0.3
70°-80°	7.6	0.2
80°-90°	2.4	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°	3284.6	69.6
0°-40°	4324.6	91.7
0°-60°	4690.9	99.5
0°-90°	4716.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4644	
5°	4630	447
15°	4655	1290
25°	3426	1548
35°	1675	1040
45°	346	311
55°	57	55
65°	13	16
75°	7	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4643.8
2.5°	4663.6
5°	4629.9
7.5°	4699.9
10°	4738.1
12.5°	4728.9
15°	4655.0
17.5°	4474.2
20°	4169.3
22.5°	3810.3
25°	3426.2
27.5°	2992.7
30°	2506.3
32.5°	2065.5
35°	1674.8
37.5°	1288.8
40°	924.5
42.5°	603.8
45°	346.5
47.5°	183.5
50°	114.2
52.5°	79.2
55°	56.8
57.5°	40.9
60°	28.4
62.5°	18.5
65°	13.2
67.5°	11.9
70°	11.2
72.5°	8.6
75°	6.6
77.5°	5.9
80°	4.6
82.5°	3.3
85°	2.0
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)