

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: P752780

Luminaire Tested: LD4D70BD010-EU4DR6570959030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752780
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-EU4DR6570959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4427.3 lumens
Efficiency: N/A
Efficacy: 66.5 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

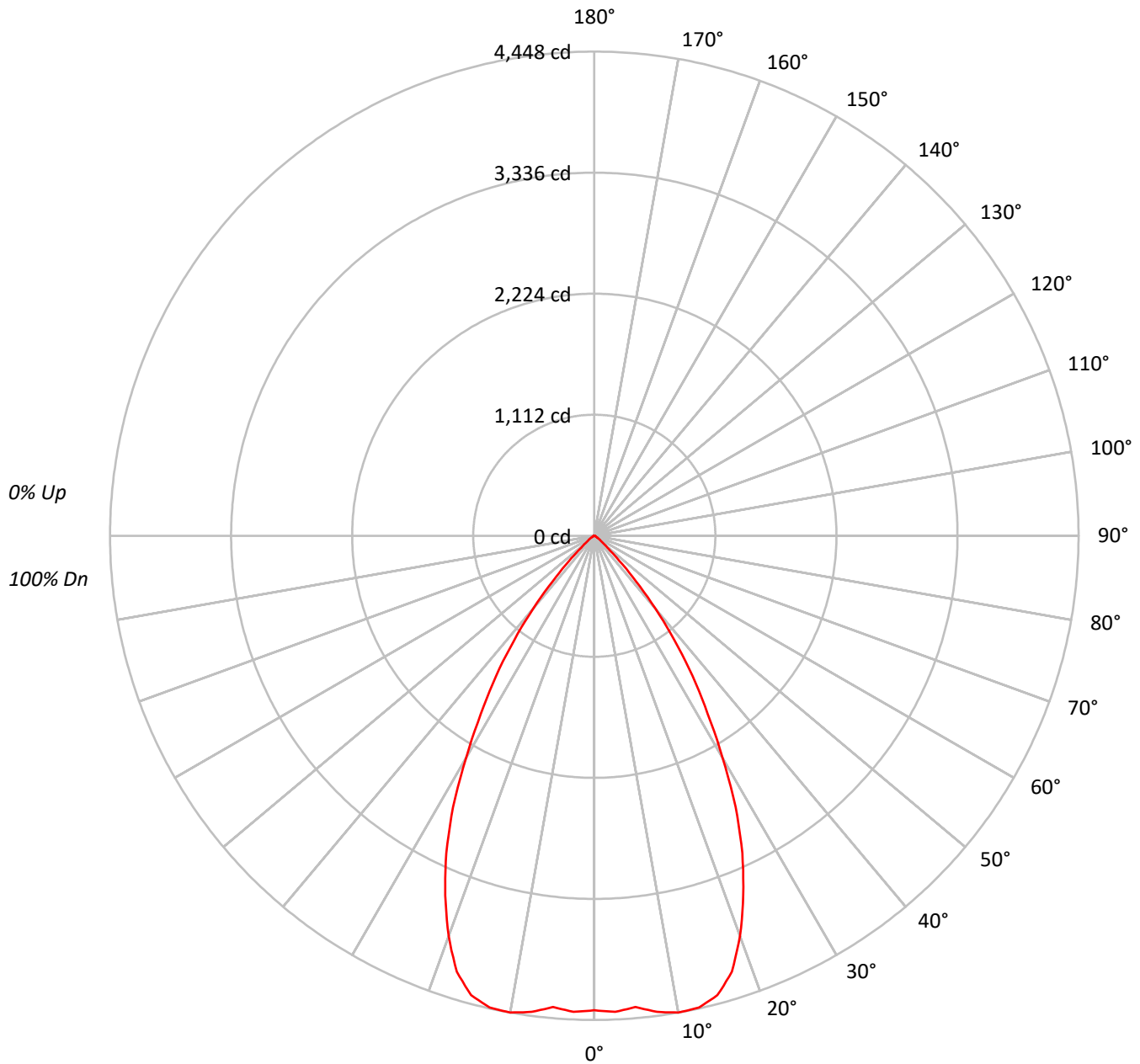


Downlight

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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°	476268
5°	476661
10°	493445
15°	494256
20°	455045
25°	387720
30°	296812
35°	209691
40°	123774
45°	50249
50°	18222
55°	10153
60°	5813
65°	3206
70°	3354
75°	2617
80°	2706
85°	2382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.7	9.5
10°-20°	1210.7	27.3
20°-30°	1452.6	32.8
30°-40°	976.2	22.1
40°-50°	292.2	6.6
50°-60°	51.6	1.2
60°-70°	14.6	0.3
70°-80°	7.2	0.2
80°-90°	2.3	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°	3083.1	69.6
0°-40°	4059.3	91.7
0°-60°	4403.1	99.5
0°-90°	4427.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4359	
5°	4346	420
15°	4370	1211
25°	3216	1453
35°	1572	976
45°	325	292
55°	53	52
65°	12	15
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4359.0
2.5°	4377.6
5°	4346.0
7.5°	4411.6
10°	4447.6
12.5°	4438.9
15°	4369.5
17.5°	4199.8
20°	3913.6
22.5°	3576.6
25°	3216.1
27.5°	2809.1
30°	2352.6
32.5°	1938.8
35°	1572.1
37.5°	1209.8
40°	867.8
42.5°	566.8
45°	325.2
47.5°	172.2
50°	107.2
52.5°	74.3
55°	53.3
57.5°	38.4
60°	26.6
62.5°	17.3
65°	12.4
67.5°	11.1
70°	10.5
72.5°	8.1
75°	6.2
77.5°	5.6
80°	4.3
82.5°	3.1
85°	1.9
87.5°	1.2
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)