

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: P752860

Luminaire Tested: LD4D70BD010-EU4DR7070959030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR7070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7189.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

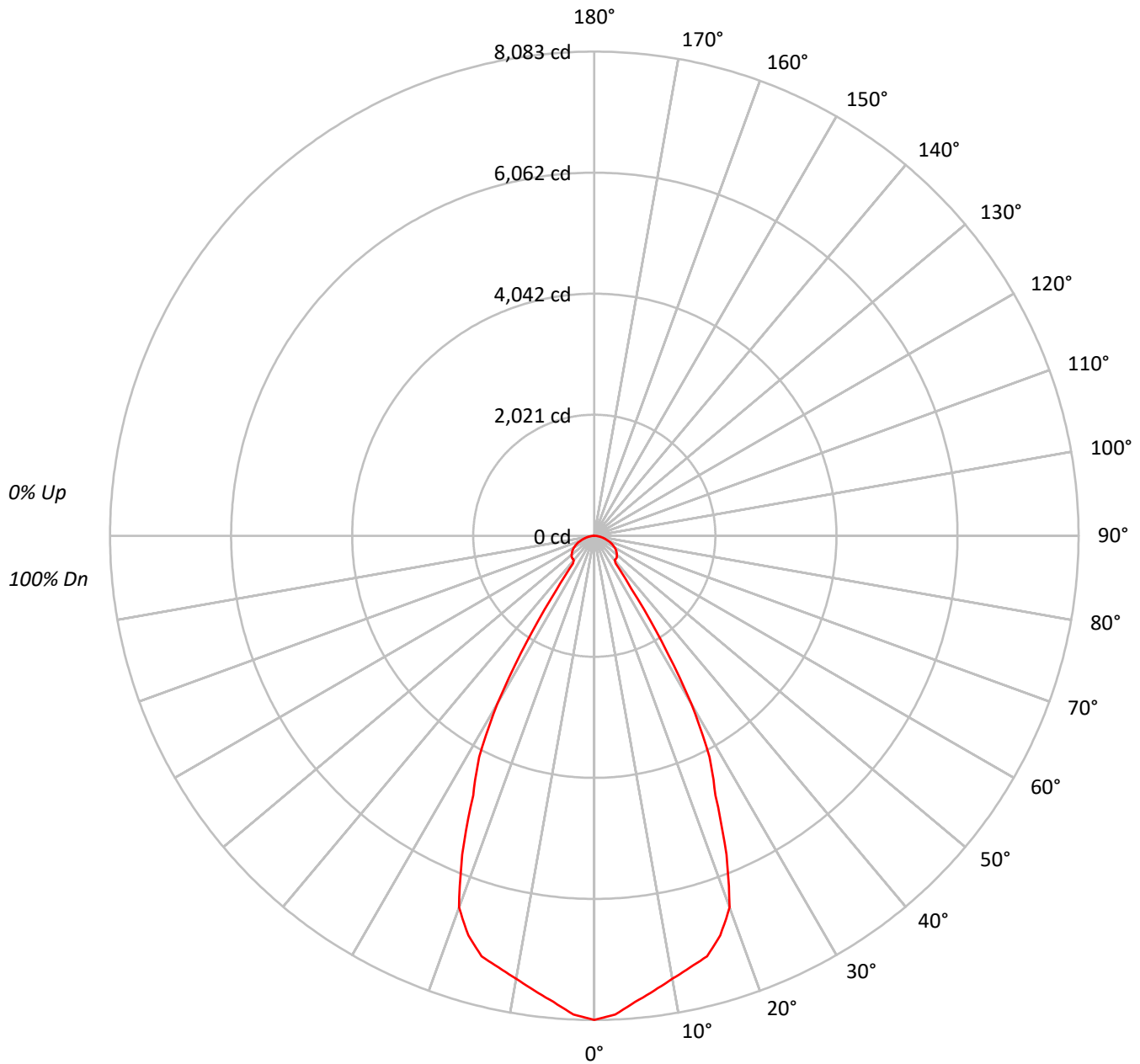


Downlight

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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	883122
5°	856871
10°	832996
15°	822064
20°	767633
25°	576691
30°	407672
35°	144400
40°	75936
45°	80875
50°	83749
55°	85321
60°	85857
65°	84023
70°	79321
75°	73454
80°	65249
85°	52903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 85875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.9	10.3
10°-20°	2021.3	28.1
20°-30°	2226.2	31.0
30°-40°	850.6	11.8
40°-50°	401.6	5.6
50°-60°	399.3	5.6
60°-70°	319.7	4.4
70°-80°	183.7	2.6
80°-90°	49.9	0.7
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°	4984.4	69.3
0°-40°	5834.9	81.2
0°-60°	6635.8	92.3
0°-90°	7189.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7189.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8083	
5°	7813	737
15°	7268	2021
25°	4784	2226
35°	1083	851
45°	523	402
55°	448	399
65°	325	320
75°	174	184
85°	42	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8082.7
2.5°	7998.2
5°	7812.6
7.5°	7657.8
10°	7508.1
12.5°	7381.4
15°	7267.5
17.5°	6992.3
20°	6602.0
22.5°	5760.0
25°	4783.6
27.5°	4164.2
30°	3231.3
32.5°	2087.2
35°	1082.6
37.5°	584.8
40°	532.4
42.5°	528.5
45°	523.4
47.5°	511.9
50°	492.7
52.5°	470.9
55°	447.9
57.5°	422.3
60°	392.9
62.5°	359.6
65°	325.0
67.5°	286.7
70°	248.3
72.5°	209.9
75°	174.0
77.5°	136.9
80°	103.7
82.5°	72.9
85°	42.2
87.5°	16.6
90°	0.0



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— 0°-180°







(END OF REPORT)