

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: P752834

Luminaire Tested: LD4D70BD010-EU4DR7070959024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752834
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-EU4DR7070959024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6160.2 lumens
Efficiency: N/A
Efficacy: 92.5 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

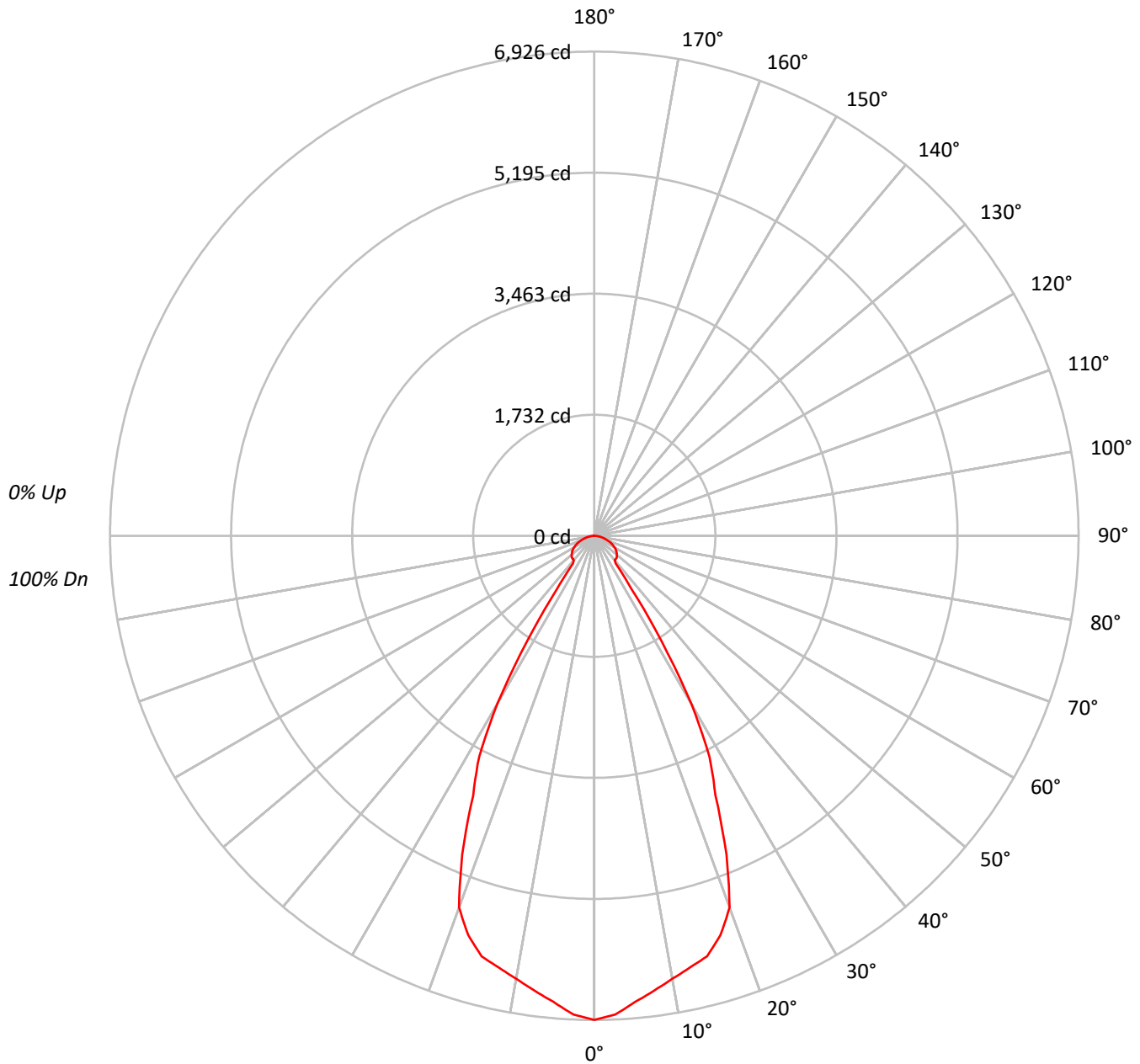


Downlight

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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	756729
5°	734251
10°	713784
15°	704413
20°	657779
25°	494159
30°	349321
35°	123739
40°	65068
45°	69301
50°	71765
55°	73110
60°	73554
65°	72001
70°	67949
75°	62943
80°	55874
85°	45381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 73593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.4	10.3
10°-20°	1732.0	28.1
20°-30°	1907.6	31.0
30°-40°	728.8	11.8
40°-50°	344.1	5.6
50°-60°	342.1	5.6
60°-70°	273.9	4.4
70°-80°	157.4	2.6
80°-90°	42.8	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°	4271.0	69.3
0°-40°	4999.9	81.2
0°-60°	5686.1	92.3
0°-90°	6160.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6160.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6926	
5°	6695	631
15°	6227	1732
25°	4099	1908
35°	928	729
45°	448	344
55°	384	342
65°	278	274
75°	149	157
85°	36	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6925.9
2.5°	6853.6
5°	6694.6
7.5°	6561.9
10°	6433.6
12.5°	6325.0
15°	6227.4
17.5°	5991.7
20°	5657.2
22.5°	4935.7
25°	4099.0
27.5°	3568.2
30°	2768.8
32.5°	1788.5
35°	927.7
37.5°	501.1
40°	456.2
42.5°	452.9
45°	448.5
47.5°	438.6
50°	422.2
52.5°	403.5
55°	383.8
57.5°	361.9
60°	336.6
62.5°	308.1
65°	278.5
67.5°	245.6
70°	212.7
72.5°	179.8
75°	149.1
77.5°	117.3
80°	88.8
82.5°	62.5
85°	36.2
87.5°	14.3
90°	0.0



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— 0°-180°







(END OF REPORT)