

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: P752845

Luminaire Tested: LD4D70BD010-EU4DR7070959027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752845
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-EU4DR7070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3866.7 lumens
Efficiency: N/A
Efficacy: 58.1 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

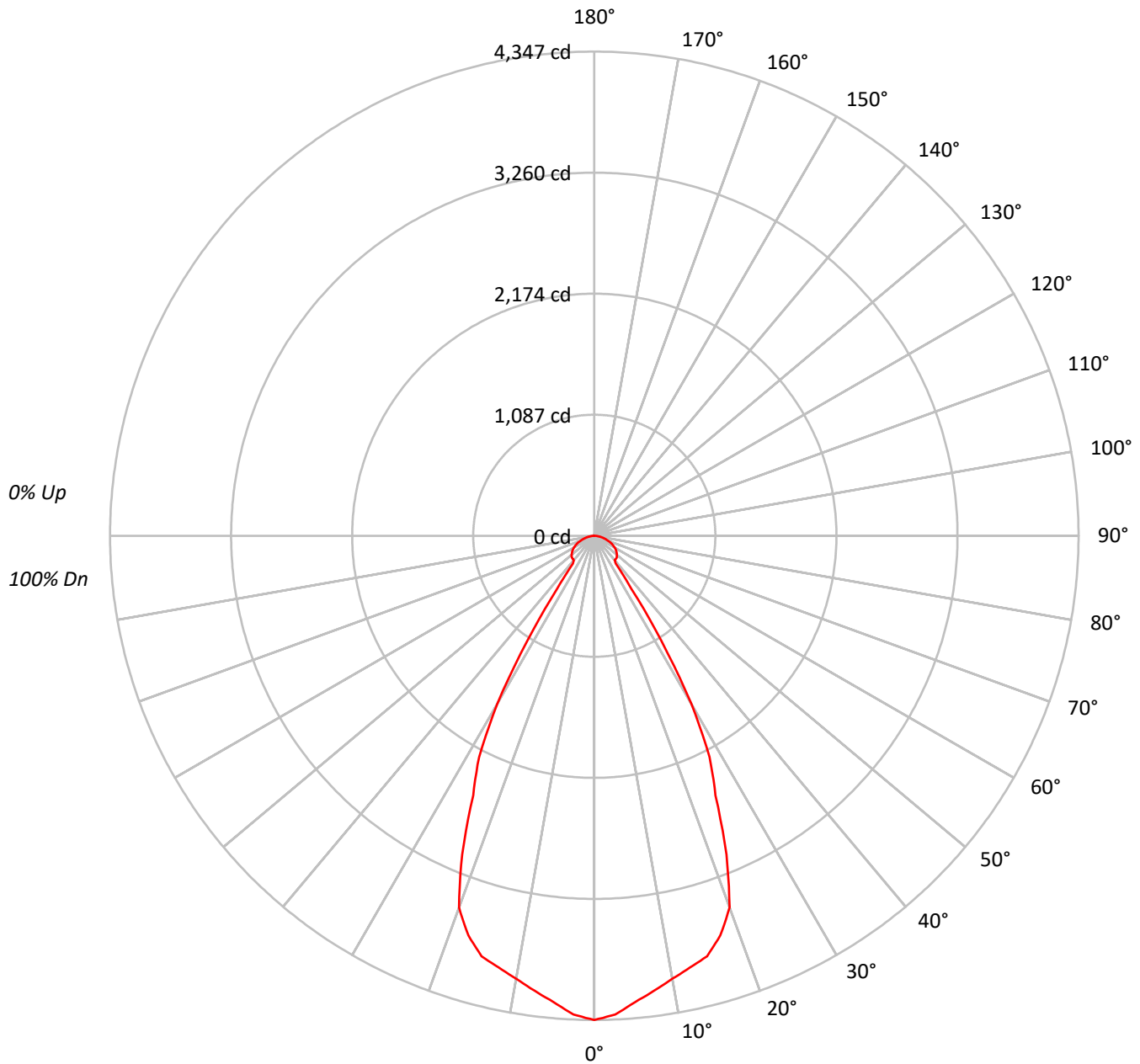


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	475000
5°	460878
10°	448034
15°	442155
20°	412885
25°	310178
30°	219272
35°	77669
40°	40835
45°	43497
50°	45045
55°	45889
60°	46174
65°	45192
70°	42648
75°	39513
80°	35110
85°	28457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 46181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.3	10.3
10°-20°	1087.2	28.1
20°-30°	1197.4	31.0
30°-40°	457.5	11.8
40°-50°	216.0	5.6
50°-60°	214.7	5.6
60°-70°	171.9	4.4
70°-80°	98.8	2.6
80°-90°	26.8	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°	2680.9	69.3
0°-40°	3138.4	81.2
0°-60°	3569.1	92.3
0°-90°	3866.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3866.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4347	
5°	4202	396
15°	3909	1087
25°	2573	1197
35°	582	457
45°	282	216
55°	241	215
65°	175	172
75°	94	99
85°	23	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4347.4
2.5°	4301.9
5°	4202.1
7.5°	4118.8
10°	4038.3
12.5°	3970.2
15°	3908.9
17.5°	3760.9
20°	3551.0
22.5°	3098.1
25°	2572.9
27.5°	2239.8
30°	1738.0
32.5°	1122.6
35°	582.3
37.5°	314.6
40°	286.3
42.5°	284.3
45°	281.5
47.5°	275.3
50°	265.0
52.5°	253.3
55°	240.9
57.5°	227.1
60°	211.3
62.5°	193.4
65°	174.8
67.5°	154.2
70°	133.5
72.5°	112.9
75°	93.6
77.5°	73.6
80°	55.8
82.5°	39.2
85°	22.7
87.5°	8.9
90°	0.0



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— 0°-180°







(END OF REPORT)