

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: P752730

Luminaire Tested: LD4D70BD010-EU4DR6070959040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7554.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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

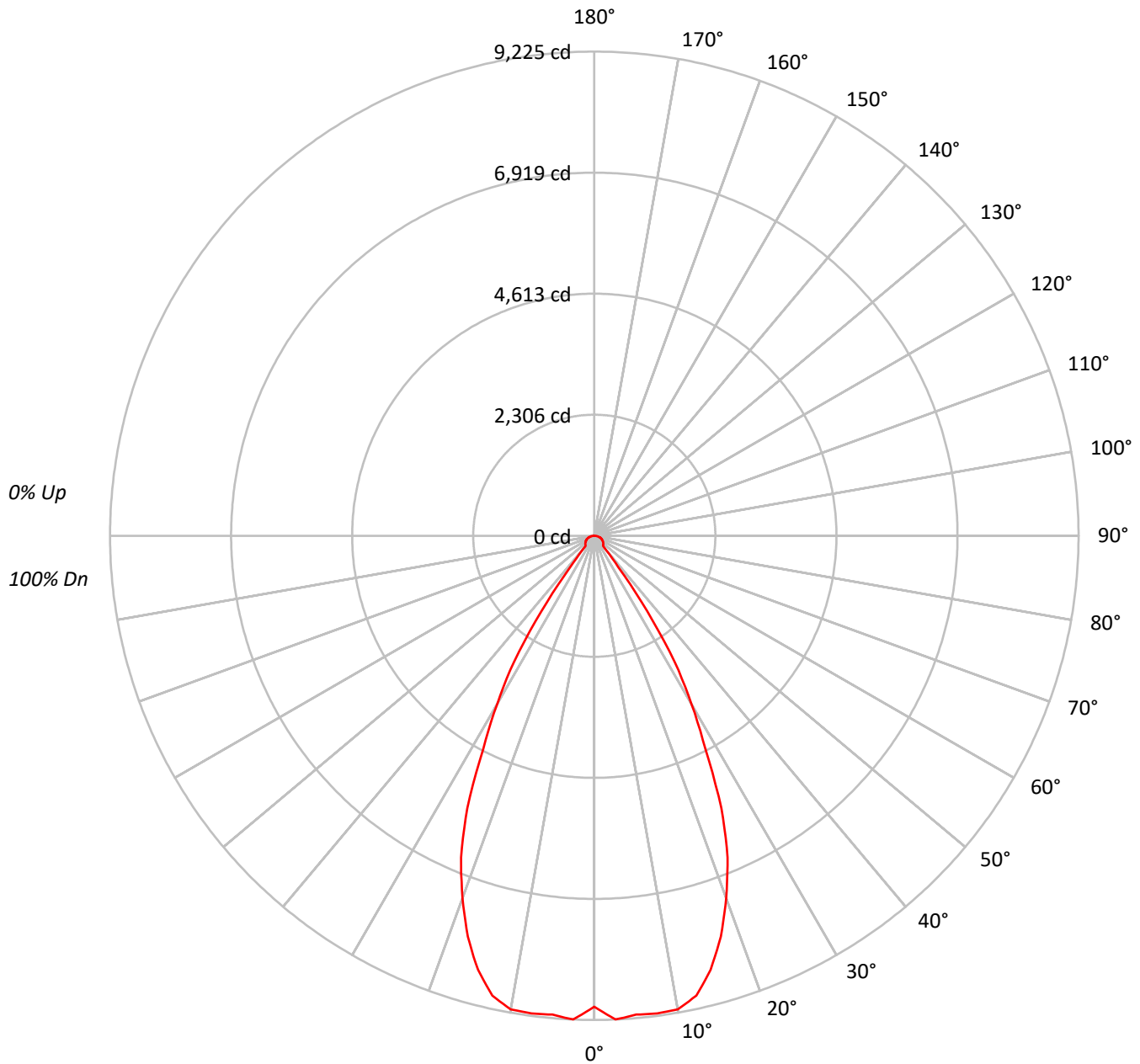


Downlight

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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	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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62		
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59		
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	980342
5°	1004443
10°	1016579
15°	968423
20°	853850
25°	690617
30°	467145
35°	234087
40°	37968
45°	37162
50°	37905
55°	38479
60°	39552
65°	40460
70°	41402
75°	41920
80°	40395
85°	33723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 41920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.3	11.6
10°-20°	2368.1	31.3
20°-30°	2547.9	33.7
30°-40°	1107.5	14.7
40°-50°	186.0	2.5
50°-60°	180.9	2.4
60°-70°	154.7	2.0
70°-80°	103.5	1.4
80°-90°	31.0	0.4
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°	5791.3	76.7
0°-40°	6898.9	91.3
0°-60°	7265.7	96.2
0°-90°	7554.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7554.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8972	
5°	9158	875
15°	8561	2368
25°	5729	2548
35°	1755	1108
45°	240	186
55°	202	181
65°	156	155
75°	99	104
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8972.5
2.5°	9224.7
5°	9158.1
7.5°	9179.1
10°	9162.8
12.5°	8973.6
15°	8561.4
17.5°	8008.0
20°	7343.5
22.5°	6632.4
25°	5728.6
27.5°	4582.0
30°	3702.7
32.5°	2853.8
35°	1755.0
37.5°	750.8
40°	266.2
42.5°	245.2
45°	240.5
47.5°	232.4
50°	223.0
52.5°	212.5
55°	202.0
57.5°	191.5
60°	181.0
62.5°	169.3
65°	156.5
67.5°	143.6
70°	129.6
72.5°	114.4
75°	99.3
77.5°	81.7
80°	64.2
82.5°	45.5
85°	26.9
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)