

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: P753508

Luminaire Tested: LD4D75BD010-EU4DR6070959040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753508
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: LD4D75BD010-EU4DR6070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5988.6 lumens
Efficiency: N/A
Efficacy: 82.7 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): 72.4
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

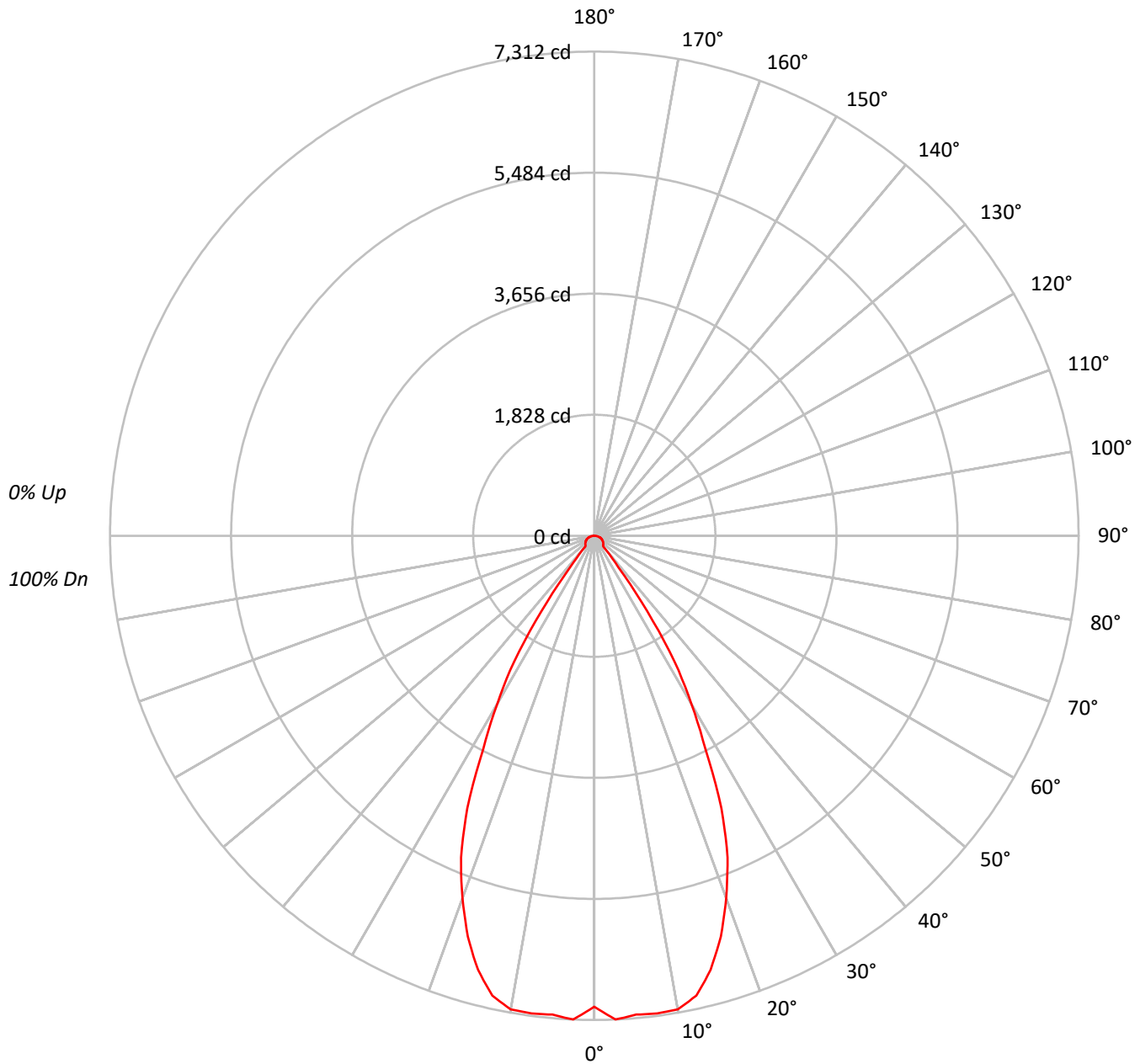


Downlight

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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	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°	777084
5°	796197
10°	805814
15°	767644
20°	676824
25°	547432
30°	370290
35°	185562
40°	30095
45°	29467
50°	30052
55°	30497
60°	31358
65°	32058
70°	32808
75°	33223
80°	32027
85°	26702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 33223 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.8	11.6
10°-20°	1877.2	31.3
20°-30°	2019.7	33.7
30°-40°	877.9	14.7
40°-50°	147.5	2.5
50°-60°	143.4	2.4
60°-70°	122.6	2.0
70°-80°	82.1	1.4
80°-90°	24.5	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°	4590.6	76.7
0°-40°	5468.6	91.3
0°-60°	5759.4	96.2
0°-90°	5988.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5988.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7112	
5°	7259	694
15°	6786	1877
25°	4541	2020
35°	1391	878
45°	191	147
55°	160	143
65°	124	123
75°	79	82
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7112.2
2.5°	7312.2
5°	7259.4
7.5°	7276.1
10°	7263.1
12.5°	7113.2
15°	6786.4
17.5°	6347.7
20°	5821.0
22.5°	5257.4
25°	4540.9
27.5°	3632.0
30°	2935.0
32.5°	2262.1
35°	1391.2
37.5°	595.2
40°	211.0
42.5°	194.4
45°	190.7
47.5°	184.2
50°	176.8
52.5°	168.5
55°	160.1
57.5°	151.8
60°	143.5
62.5°	134.2
65°	124.0
67.5°	113.8
70°	102.7
72.5°	90.7
75°	78.7
77.5°	64.8
80°	50.9
82.5°	36.1
85°	21.3
87.5°	7.4
90°	0.0



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— 0°-180°







(END OF REPORT)