

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: P751311

Luminaire Tested: LD4D60D010-EU4DR7055659035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P751311
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: LD4D60D010-EU4DR7055659035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.8 lumens
Efficiency: N/A
Efficacy: 55.4 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): 64.4
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

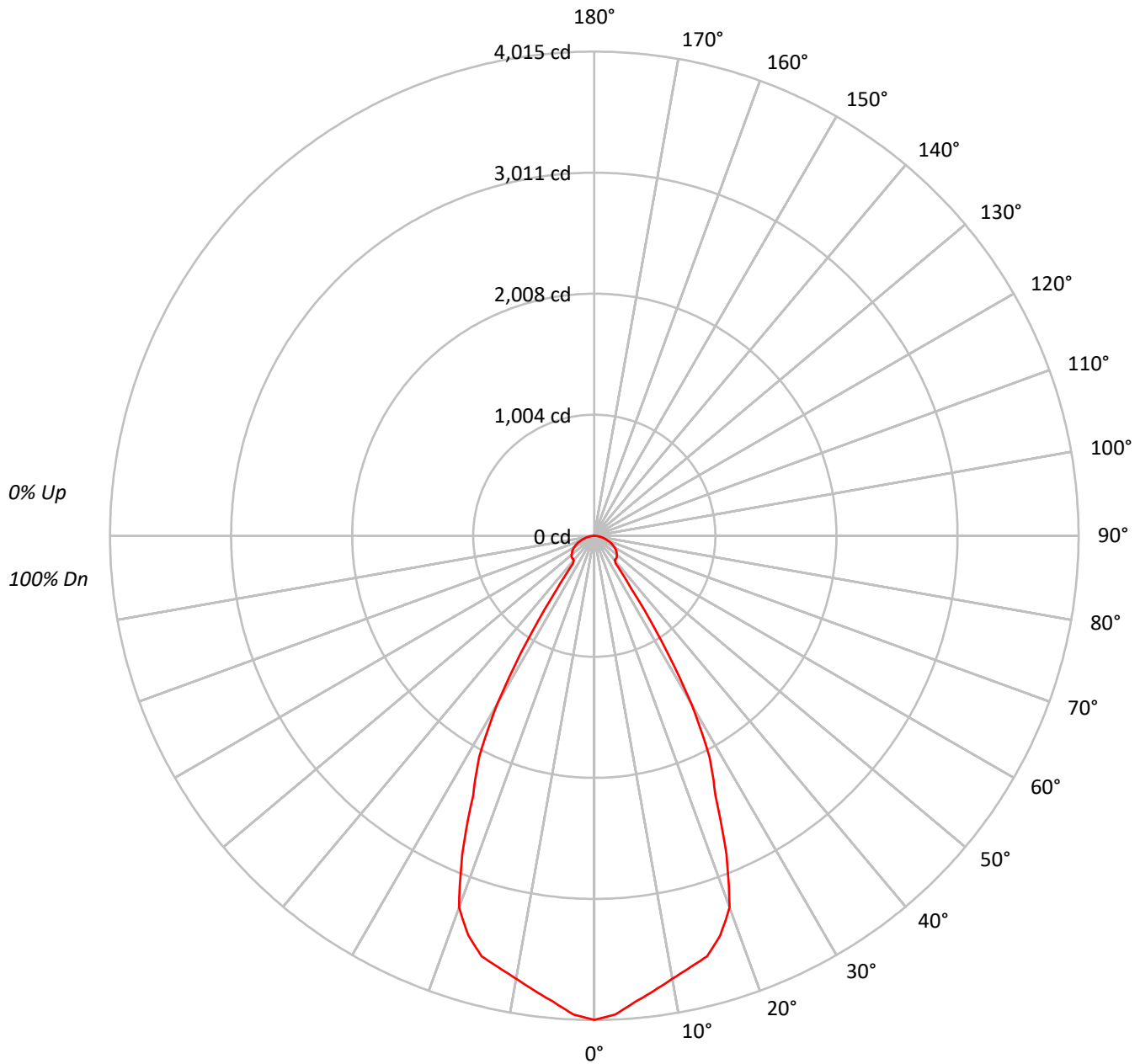


Downlight

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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				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°	438638
5°	425606
10°	413741
15°	408311
20°	381282
25°	286441
30°	202492
35°	71720
40°	37711
45°	40175
50°	41594
55°	42384
60°	42634
65°	41727
70°	39389
75°	36474
80°	32404
85°	26326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 42663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	10.3
10°-20°	1004.0	28.1
20°-30°	1105.7	31.0
30°-40°	422.5	11.8
40°-50°	199.5	5.6
50°-60°	198.3	5.6
60°-70°	158.8	4.4
70°-80°	91.2	2.6
80°-90°	24.8	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°	2475.7	69.3
0°-40°	2898.2	81.2
0°-60°	3296.0	92.3
0°-90°	3570.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4015	
5°	3880	366
15°	3610	1004
25°	2376	1106
35°	538	422
45°	260	199
55°	222	198
65°	161	159
75°	86	91
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4014.6
2.5°	3972.7
5°	3880.5
7.5°	3803.6
10°	3729.2
12.5°	3666.3
15°	3609.7
17.5°	3473.1
20°	3279.2
22.5°	2861.0
25°	2376.0
27.5°	2068.3
30°	1605.0
32.5°	1036.7
35°	537.7
37.5°	290.5
40°	264.4
42.5°	262.5
45°	260.0
47.5°	254.3
50°	244.7
52.5°	233.9
55°	222.5
57.5°	209.8
60°	195.1
62.5°	178.6
65°	161.4
67.5°	142.4
70°	123.3
72.5°	104.2
75°	86.4
77.5°	68.0
80°	51.5
82.5°	36.2
85°	21.0
87.5°	8.3
90°	0.0



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— 0°-180°







(END OF REPORT)