

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: P751340

Luminaire Tested: LD4D60D010-EU4DR7055659050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P751340
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-EU4DR7055659050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5053.8 lumens
Efficiency: N/A
Efficacy: 78.5 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): 64.4
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

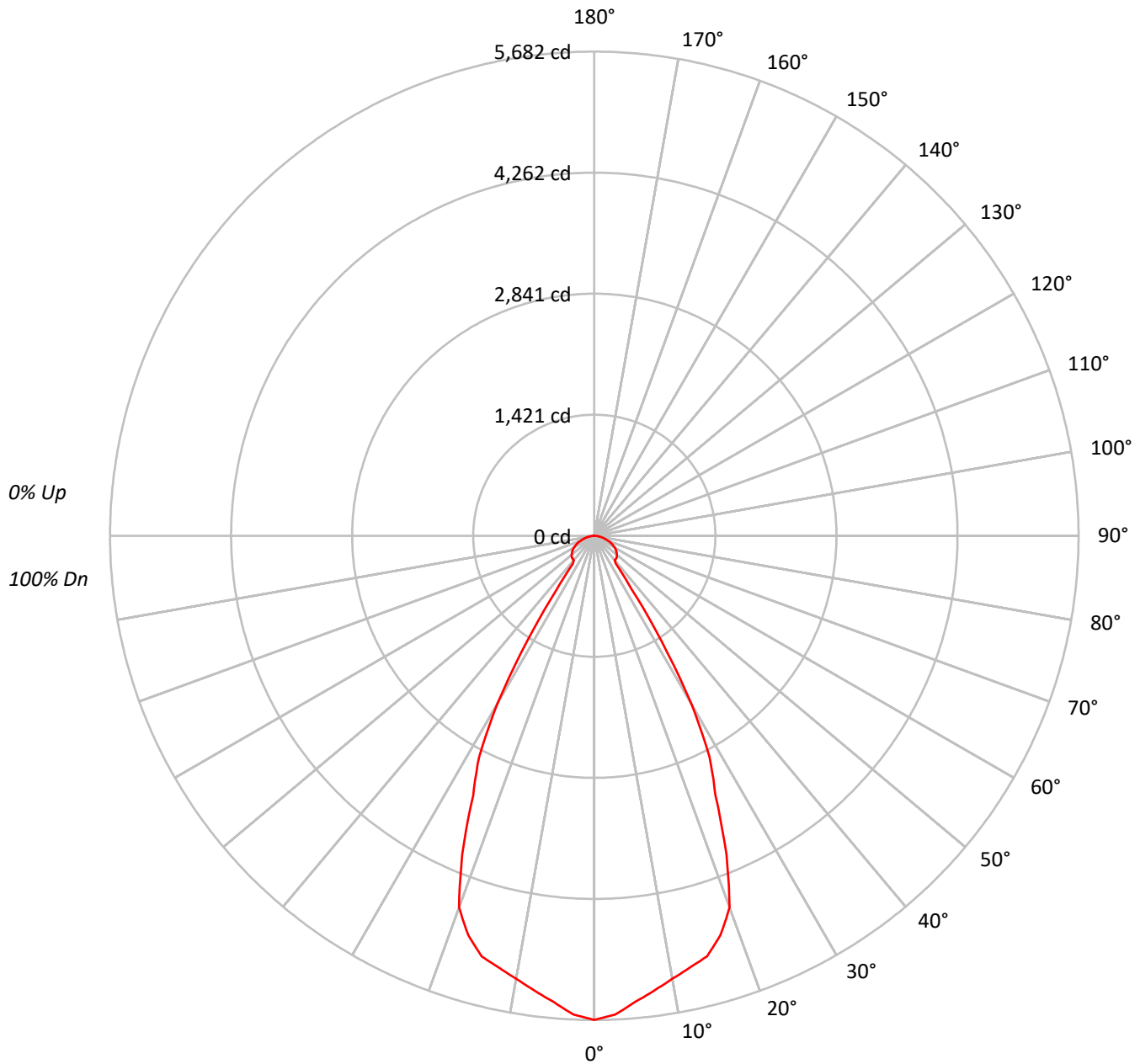


Downlight

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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					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°	620809
5°	602363
10°	585574
15°	577882
20°	539634
25°	405393
30°	286580
35°	101518
40°	53372
45°	56847
50°	58864
55°	59985
60°	60356
65°	59075
70°	55745
75°	51629
80°	45869
85°	37233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 60375 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.0	10.3
10°-20°	1420.9	28.1
20°-30°	1564.9	31.0
30°-40°	597.9	11.8
40°-50°	282.3	5.6
50°-60°	280.7	5.6
60°-70°	224.7	4.4
70°-80°	129.1	2.6
80°-90°	35.1	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°	3503.9	69.3
0°-40°	4101.8	81.2
0°-60°	4664.8	92.3
0°-90°	5053.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5053.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5682	
5°	5492	518
15°	5109	1421
25°	3363	1565
35°	761	598
45°	368	282
55°	315	281
65°	228	225
75°	122	129
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5681.9
2.5°	5622.5
5°	5492.1
7.5°	5383.2
10°	5278.0
12.5°	5188.9
15°	5108.8
17.5°	4915.4
20°	4641.1
22.5°	4049.1
25°	3362.7
27.5°	2927.3
30°	2271.5
32.5°	1467.3
35°	761.1
37.5°	411.1
40°	374.2
42.5°	371.5
45°	367.9
47.5°	359.8
50°	346.3
52.5°	331.1
55°	314.9
57.5°	296.9
60°	276.2
62.5°	252.8
65°	228.5
67.5°	201.5
70°	174.5
72.5°	147.5
75°	122.3
77.5°	96.3
80°	72.9
82.5°	51.3
85°	29.7
87.5°	11.7
90°	0.0



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— 0°-180°







(END OF REPORT)