

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: P751129

Luminaire Tested: LD4D60D010-EU4DR6055659027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P751129
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: LD4D60D010-EU4DR6055659027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4612.1 lumens
Efficiency: N/A
Efficacy: 71.6 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): 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

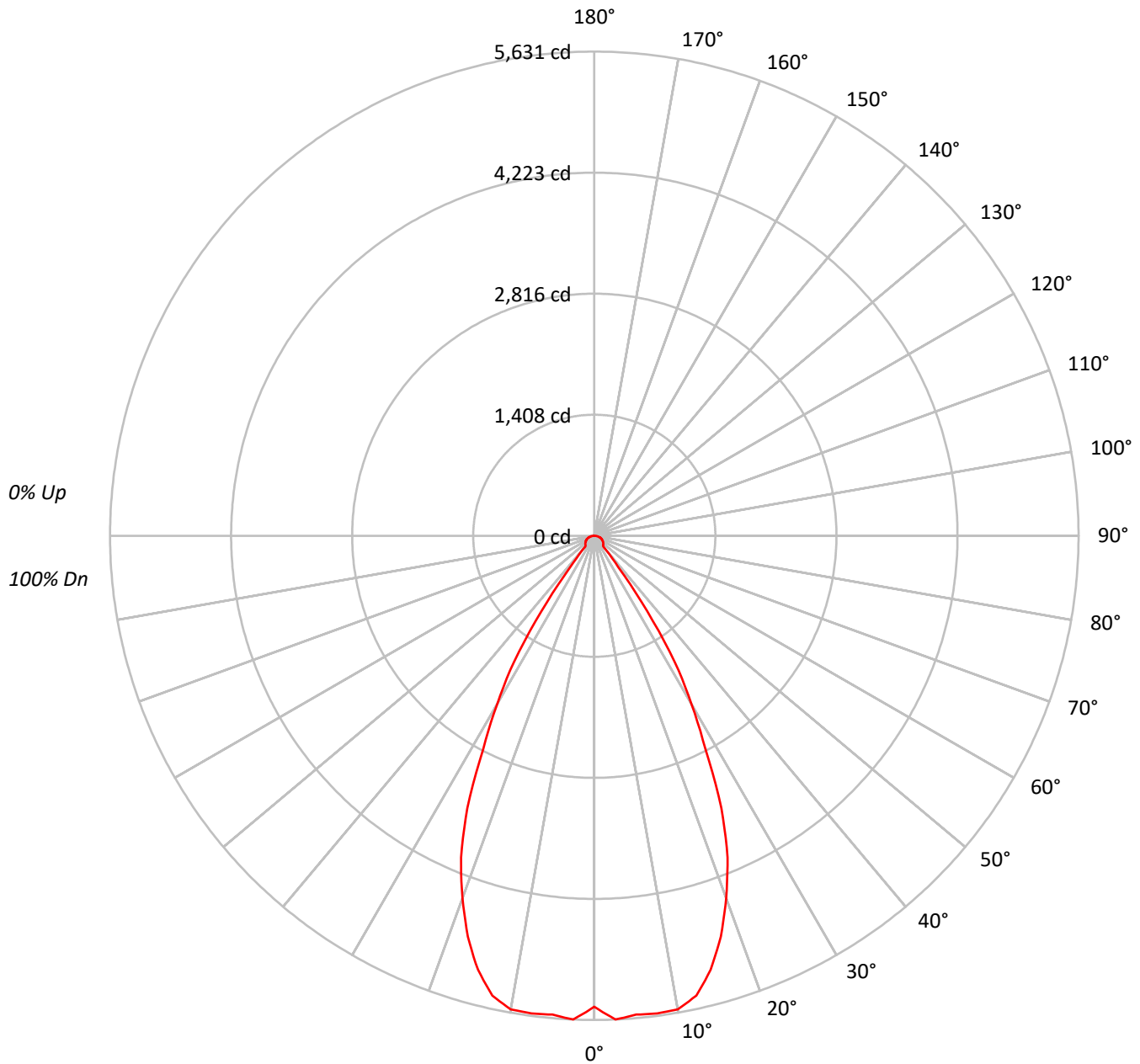


Downlight

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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
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°	598465
5°	613177
10°	620589
15°	591196
20°	521251
25°	421608
30°	285180
35°	142906
40°	23177
45°	22683
50°	23151
55°	23487
60°	24147
65°	24690
70°	25269
75°	25582
80°	24665
85°	20559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 25582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.3	11.6
10°-20°	1445.7	31.3
20°-30°	1555.4	33.7
30°-40°	676.1	14.7
40°-50°	113.6	2.5
50°-60°	110.4	2.4
60°-70°	94.4	2.0
70°-80°	63.2	1.4
80°-90°	18.9	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°	3535.5	76.7
0°-40°	4211.6	91.3
0°-60°	4435.5	96.2
0°-90°	4612.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5477	
5°	5591	534
15°	5226	1446
25°	3497	1555
35°	1071	676
45°	147	114
55°	123	110
65°	96	94
75°	61	63
85°	16	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5477.4
2.5°	5631.4
5°	5590.7
7.5°	5603.6
10°	5593.6
12.5°	5478.1
15°	5226.5
17.5°	4888.6
20°	4483.0
22.5°	4048.9
25°	3497.2
27.5°	2797.2
30°	2260.4
32.5°	1742.2
35°	1071.4
37.5°	458.4
40°	162.5
42.5°	149.7
45°	146.8
47.5°	141.9
50°	136.2
52.5°	129.7
55°	123.3
57.5°	116.9
60°	110.5
62.5°	103.4
65°	95.5
67.5°	87.7
70°	79.1
72.5°	69.9
75°	60.6
77.5°	49.9
80°	39.2
82.5°	27.8
85°	16.4
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)