

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: P750720

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D60D010-EU4DR3055659050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6263.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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

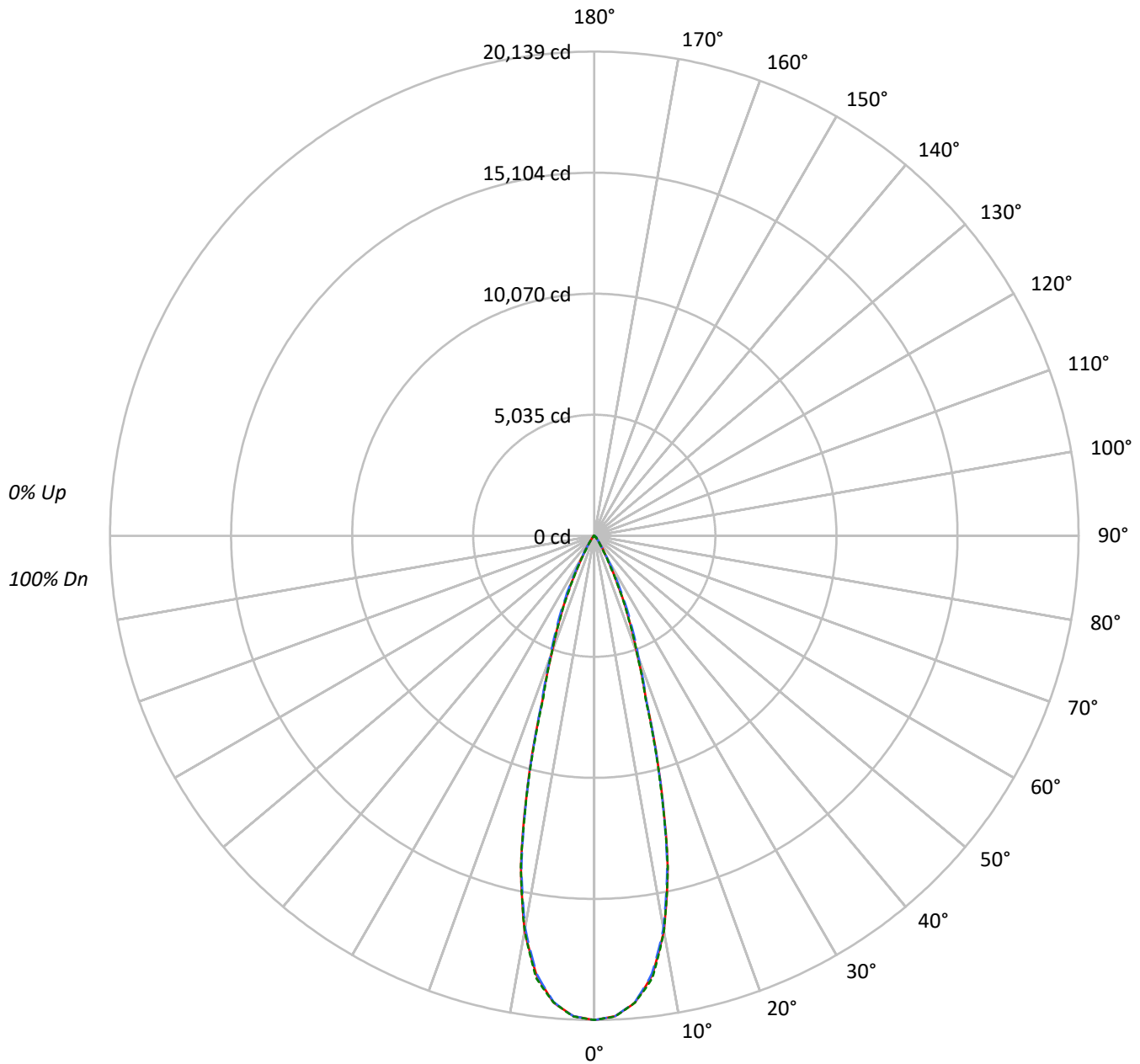


Downlight

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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				10
RW	70	50	30	10	70	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
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1541477	1541477	1541477
5°	1497222	1495478	1497299
10°	1296821	1287680	1296517
15°	846115	841567	837335
20°	420735	436522	420165
25°	211935	238994	207594
30°	84858	92459	73934
35°	39358	37695	31593
40°	16996	18865	16007
45°	11983	14873	12091
50°	4120	10836	4358
55°	2375	4484	2509
60°	1669	1975	1669
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14873 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1770.9	28.3
10°-20°	2852.0	45.5
20°-30°	1232.4	19.7
30°-40°	280.9	4.5
40°-50°	96.4	1.5
50°-60°	23.6	0.4
60°-70°	6.1	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
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°	5855.3	93.5
0°-40°	6136.2	98.0
0°-60°	6256.2	99.9
0°-90°	6263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20139	20139	20139	20139	20139	
5°	19486	19467	19463	19504	19487	1772
15°	10677	10549	10620	10585	10567	2859
25°	2509	2604	2830	2538	2458	1201
35°	421	430	403	400	338	286
45°	111	137	137	137	112	79
55°	18	19	34	20	19	17
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20138.6	20138.6	20138.6	20138.6	20138.6
2.5°	20005.1	19991.3	19999.2	20009.1	20013.0
5°	19486.0	19467.2	19463.3	19503.8	19487.0
7.5°	18439.0	18412.3	18371.7	18463.7	18549.7
10°	16684.9	16655.3	16567.3	16610.8	16681.0
12.5°	14095.4	13999.5	13997.5	14136.0	14117.2
15°	10677.4	10548.8	10620.0	10585.4	10566.6
17.5°	7180.2	7130.8	7225.7	7197.0	7073.4
20°	5165.2	5178.0	5359.0	5268.0	5158.2
22.5°	3769.1	3815.5	4030.1	3795.8	3709.7
25°	2509.4	2604.3	2829.8	2538.1	2458.0
27.5°	1543.4	1586.9	1815.3	1523.6	1480.1
30°	960.1	938.3	1046.1	897.8	836.5
32.5°	629.8	602.1	636.7	571.5	522.1
35°	421.2	430.1	403.4	400.4	338.1
37.5°	263.0	302.6	267.0	284.8	217.5
40°	170.1	219.5	188.8	208.6	160.2
42.5°	139.4	169.1	155.2	165.1	142.4
45°	110.7	137.4	137.4	137.4	111.7
47.5°	61.3	92.0	117.7	93.9	65.3
50°	34.6	46.5	91.0	48.4	36.6
52.5°	23.7	26.7	62.3	27.7	24.7
55°	17.8	18.8	33.6	19.8	18.8
57.5°	13.8	14.8	17.8	14.8	13.8
60°	10.9	10.9	12.9	11.9	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)