

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: P750664

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750664
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-EU4DR3055659027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5087.5 lumens
Efficiency: N/A
Efficacy: 79.0 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

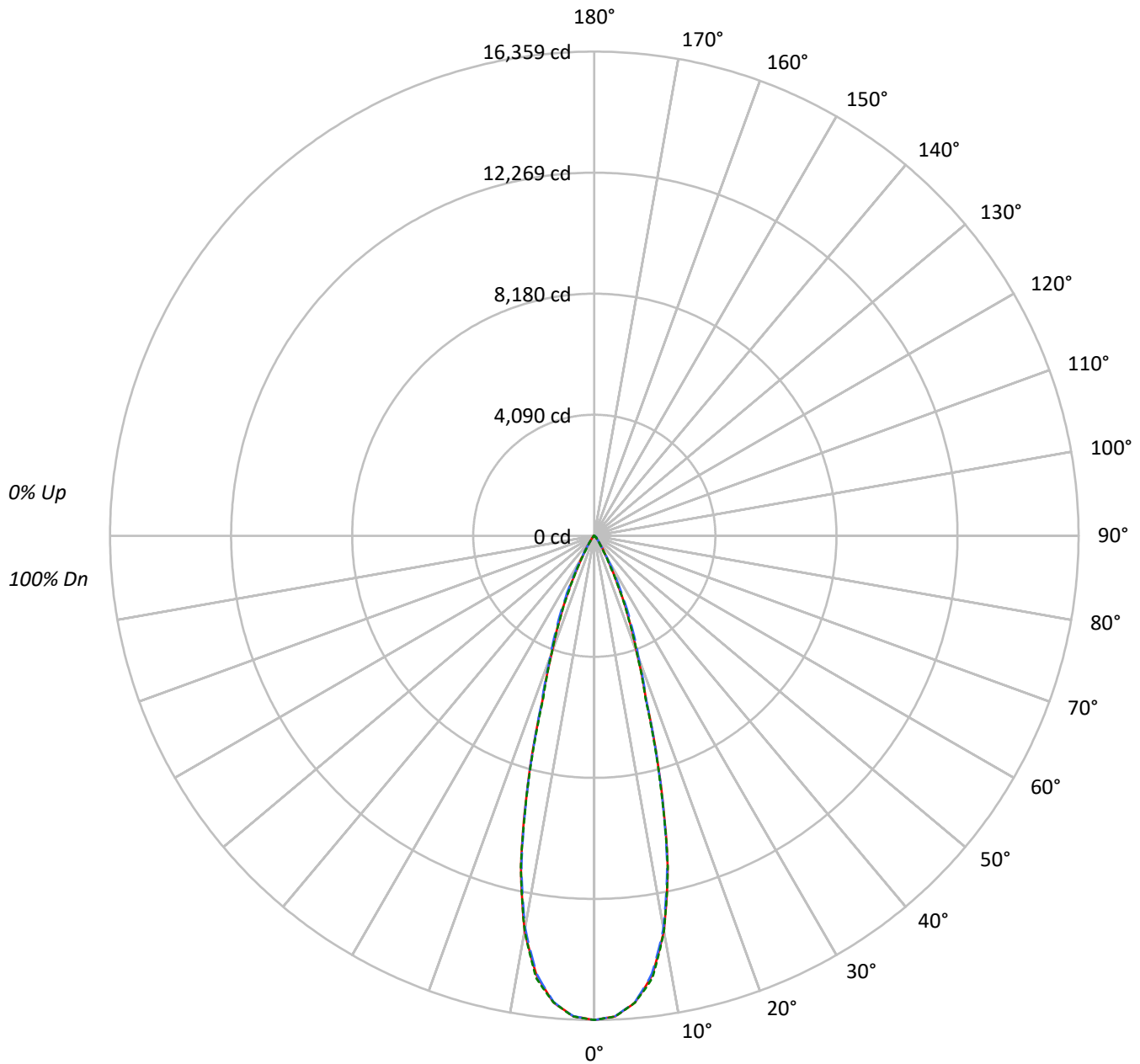


Downlight

TEST NUMBER: P750664

CATALOG NUMBER: LD4D60D010-EU4DR3055659027-4LBDP1MW

Luminous Intensity Polar Plot



TEST NUMBER: P750664

CATALOG NUMBER: LD4D60D010-EU4DR3055659027-4LBDP1MW

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°	1252166	1252166	1252166
5°	1216218	1214797	1216280
10°	1053427	1046005	1053178
15°	687311	683618	680179
20°	341764	354593	341308
25°	172156	194140	168634
30°	68931	75100	60057
35°	31967	30621	25669
40°	13799	15328	13000
45°	9742	12081	9829
50°	3346	8800	3537
55°	1935	3643	2042
60°	1347	1592	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12081 cd/sqm

TEST NUMBER: P750664

CATALOG NUMBER: LD4D60D010-EU4DR3055659027-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1438.5	28.3
10°-20°	2316.7	45.5
20°-30°	1001.1	19.7
30°-40°	228.2	4.5
40°-50°	78.3	1.5
50°-60°	19.1	0.4
60°-70°	4.9	0.1
70°-80°	0.5	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°	4756.4	93.5
0°-40°	4984.6	98.0
0°-60°	5082.0	99.9
0°-90°	5087.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16359	16359	16359	16359	16359	
5°	15829	15814	15810	15843	15830	1440
15°	8673	8569	8627	8599	8583	2322
25°	2038	2116	2299	2062	1997	976
35°	342	349	328	325	275	232
45°	90	112	112	112	91	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P750664

CATALOG NUMBER: LD4D60D010-EU4DR3055659027-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16358.9	16358.9	16358.9	16358.9	16358.9
2.5°	16250.5	16239.2	16245.6	16253.7	16256.9
5°	15828.8	15813.5	15810.3	15843.3	15829.6
7.5°	14978.2	14956.6	14923.6	14998.3	15068.2
10°	13553.4	13529.3	13457.9	13493.2	13550.2
12.5°	11449.9	11372.0	11370.4	11482.9	11467.6
15°	8673.4	8569.0	8626.8	8598.7	8583.4
17.5°	5832.6	5792.4	5869.5	5846.2	5745.9
20°	4195.7	4206.2	4353.2	4279.3	4190.1
22.5°	3061.7	3099.4	3273.7	3083.4	3013.5
25°	2038.4	2115.5	2298.7	2061.7	1996.7
27.5°	1253.7	1289.1	1474.6	1237.7	1202.3
30°	779.9	762.2	849.7	729.3	679.5
32.5°	511.6	489.1	517.2	464.2	424.1
35°	342.1	349.4	327.7	325.3	274.7
37.5°	213.6	245.8	216.9	231.3	176.7
40°	138.1	178.3	153.4	169.5	130.1
42.5°	113.2	137.3	126.1	134.1	115.7
45°	90.0	111.6	111.6	111.6	90.8
47.5°	49.8	74.7	95.6	76.3	53.0
50°	28.1	37.7	73.9	39.4	29.7
52.5°	19.3	21.7	50.6	22.5	20.1
55°	14.5	15.3	27.3	16.1	15.3
57.5°	11.2	12.0	14.5	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)