Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P750655

Luminaire Tested: LD4D60D010-EU4DR3055659024-4LBS1MW

Issue Date: 1/30/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P750655
	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-EU4DR3055659024-4LBS1MW
Description:	4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5037.6 lumens
Efficiency:	N/A
Efficacy:	78.2 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

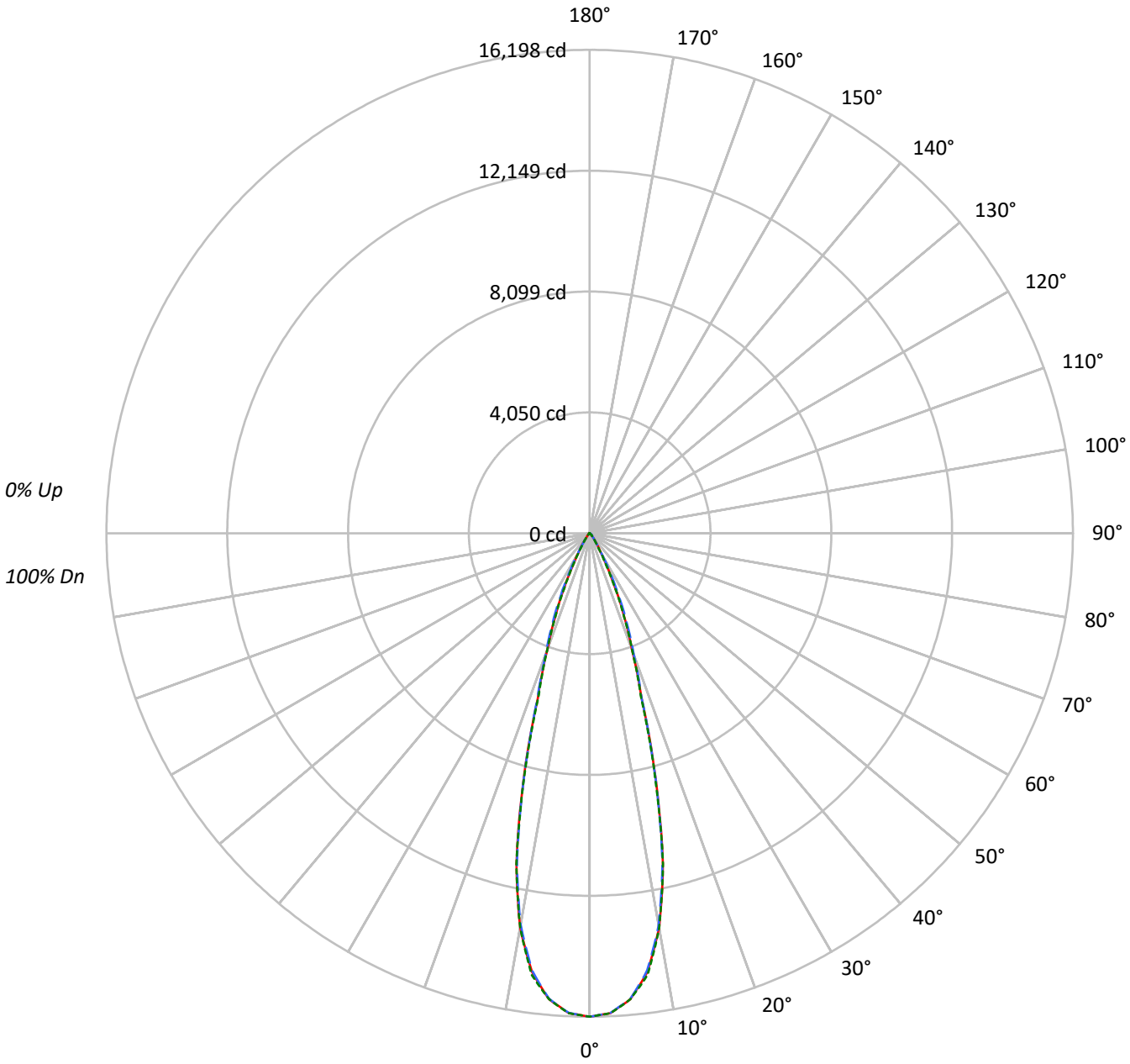
Downlight

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P750655
CATALOG NUMBER: LD4D60D010-EU4DR3055659024-4LBS1MW

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P750655
CATALOG NUMBER: LD4D60D010-EU4DR3055659024-4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1239873	1239873	1239873
5°	1204278	1202872	1204339
10°	1043082	1035729	1042841
15°	680559	676906	673507
20°	338408	351107	337960
25°	170467	192231	166979
30°	68251	74367	59465
35°	31658	30322	25416
40°	13669	15178	12870
45°	9645	11961	9732
50°	3310	8717	3501
55°	1908	3603	2015
60°	1332	1577	1332
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: 11961 cd/sqm

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P750655
CATALOG NUMBER: LD4D60D010-EU4DR3055659024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1424.4	28.3
10°-20°	2294.0	45.5
20°-30°	991.3	19.7
30°-40°	225.9	4.5
40°-50°	77.6	1.5
50°-60°	18.9	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°	4709.7	93.5
0°-40°	4935.6	98.0
0°-60°	5032.1	99.9
0°-90°	5037.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5037.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16198	16198	16198	16198	16198	
5°	15673	15658	15655	15688	15674	1426
15°	8588	8485	8542	8514	8499	2300
25°	2018	2095	2276	2042	1977	966
35°	339	346	324	322	272	230
45°	89	110	110	110	90	63
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	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P750655
CATALOG NUMBER: LD4D60D010-EU4DR3055659024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*16198.3*	*16198.3*	*16198.3*	*16198.3*	*16198.3*
2.5°	*16090.9*	16079.8	16086.1	16094.1	16097.3
5°	*15673.4*	15658.3	15655.1	15687.7	15674.2
7.5°	*14831.2*	14809.7	14777.1	14851.0	14920.2
10°	*13420.3*	13396.5	13325.7	13360.7	13417.2
12.5°	*11337.5*	11260.4	11258.8	11370.1	11355.0
15°	*8588.2*	8484.8	8542.1	8514.3	8499.2
17.5°	*5775.3*	5735.6	5811.9	5788.8	5689.4
20°	*4154.5*	4164.9	4310.4	4237.2	4149.0
22.5°	*3031.6*	3069.0	3241.6	3053.1	2983.9
25°	*2018.4*	2094.8	2276.1	2041.5	1977.1
27.5°	*1241.4*	1276.4	1460.1	1225.5	1190.5
30°	*772.2*	754.7	841.4	722.1	672.8
32.5°	*506.6*	484.3	512.2	459.7	419.9
35°	*338.8*	345.9	324.5	322.1	272.0
37.5°	*211.5*	243.4	214.7	229.0	175.0
40°	*136.8*	176.6	151.9	167.8	128.8
42.5°	*112.1*	136.0	124.9	132.8	114.5
45°	*89.1*	110.5	110.5	110.5	89.9
47.5°	*49.3*	74.0	94.6	75.6	52.5
50°	*27.8*	37.4	73.2	39.0	29.4
52.5°	*19.1*	21.5	50.1	22.3	19.9
55°	*14.3*	15.1	27.0	15.9	15.1
57.5°	*11.1*	11.9	14.3	11.9	11.1
60°	*8.7*	8.7	10.3	9.5	8.7
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

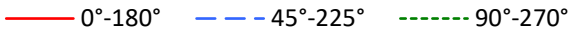
Report Generated By 670245859 / DESKTOP-T8S5UU9

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

(END OF REPORT)