

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: P746015

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746015
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: LD4D30D010-EU4DR3020359035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096.6 lumens
Efficiency: N/A
Efficacy: 72.3 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): 29
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



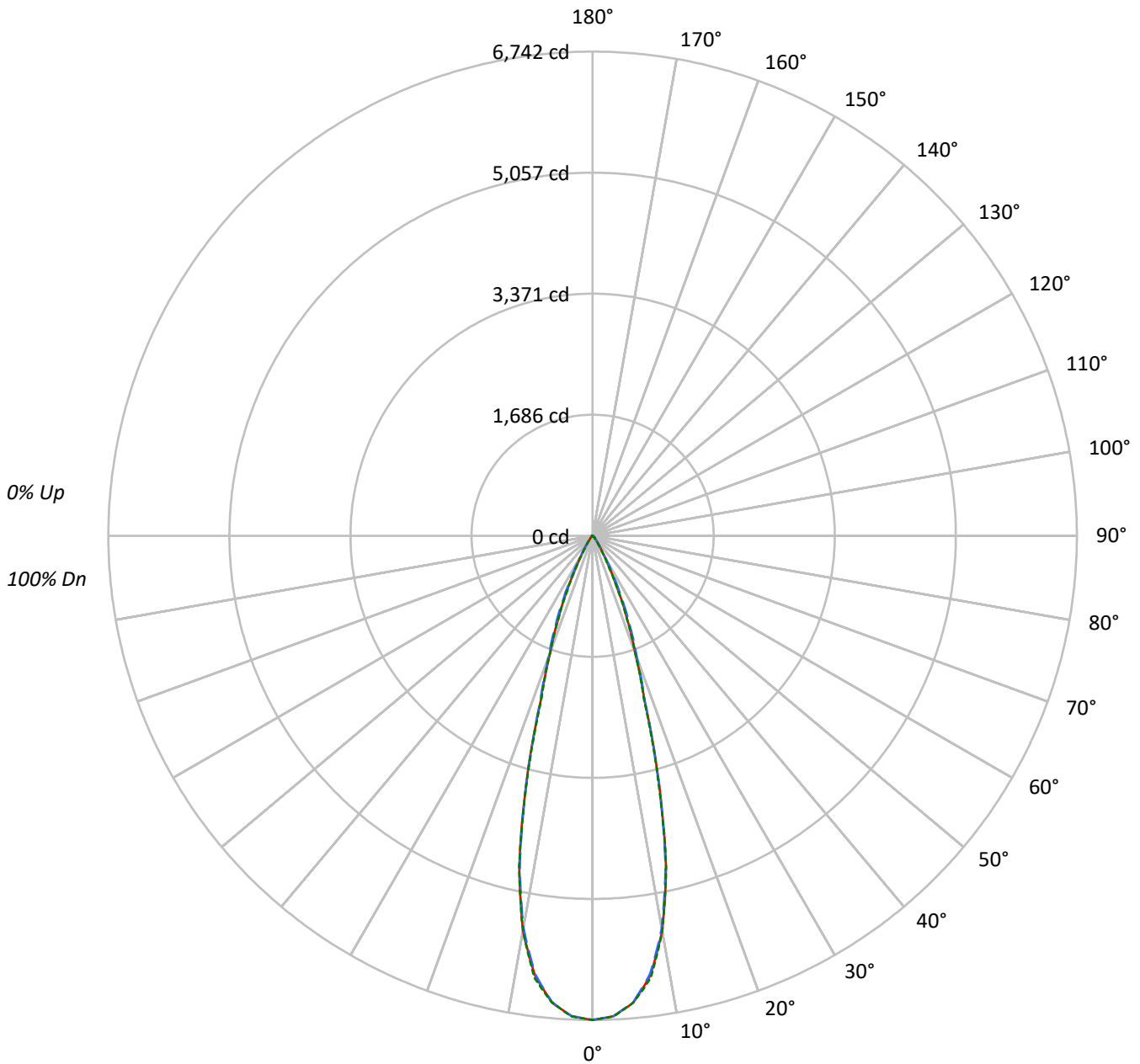
Downlight



TEST NUMBER: P746015

CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P746015

CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBSQW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	516025	516025	516025
5°	501215	500624	501238
10°	434129	431058	434027
15°	283248	281727	280308
20°	140845	146132	140658
25°	70952	80005	69491
30°	28407	30952	24748
35°	13175	12615	10578
40°	5695	6315	5356
45°	4016	4979	4049
50°	1381	3620	1465
55°	801	1495	841
60°	566	658	566
65°	362	362	362
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4979 cd/sqm



TEST NUMBER: P746015

CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	28.3
10°-20°	954.7	45.5
20°-30°	412.6	19.7
30°-40°	94.0	4.5
40°-50°	32.3	1.5
50°-60°	7.9	0.4
60°-70°	2.0	0.1
70°-80°	0.2	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°	1960.1	93.5
0°-40°	2054.2	98.0
0°-60°	2094.4	99.9
0°-90°	2096.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6742	6742	6742	6742	6742	
5°	6523	6517	6516	6529	6524	593
15°	3574	3531	3555	3544	3537	957
25°	840	872	947	850	823	402
35°	141	144	135	134	113	96
45°	37	46	46	46	37	26
55°	6	6	11	7	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P746015

CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6741.6	6741.6	6741.6	6741.6	6741.6
2.5°	6696.9	6692.3	6694.9	6698.3	6699.6
5°	6523.2	6516.9	6515.5	6529.1	6523.5
7.5°	6172.6	6163.7	6150.1	6180.9	6209.7
10°	5585.5	5575.5	5546.0	5560.7	5584.2
12.5°	4718.6	4686.5	4685.8	4732.2	4725.9
15°	3574.4	3531.3	3555.2	3543.6	3537.3
17.5°	2403.6	2387.1	2418.9	2409.3	2367.9
20°	1729.1	1733.4	1794.0	1763.5	1726.8
22.5°	1261.8	1277.3	1349.1	1270.7	1241.9
25°	840.1	871.8	947.3	849.6	822.8
27.5°	516.7	531.2	607.7	510.0	495.5
30°	321.4	314.1	350.2	300.5	280.0
32.5°	210.8	201.6	213.1	191.3	174.7
35°	141.0	144.0	135.0	134.1	113.2
37.5°	88.1	101.3	89.4	95.3	72.8
40°	57.0	73.5	63.2	69.8	53.6
42.5°	46.7	56.6	52.0	55.3	47.7
45°	37.1	46.0	46.0	46.0	37.4
47.5°	20.5	30.8	39.4	31.5	21.8
50°	11.6	15.6	30.4	16.2	12.3
52.5°	8.0	8.9	20.9	9.3	8.3
55°	6.0	6.3	11.2	6.6	6.3
57.5°	4.6	5.0	6.0	5.0	4.6
60°	3.7	3.7	4.3	4.0	3.7
62.5°	2.6	2.6	3.0	2.6	2.6
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)