

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: P745064

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745064
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: LD4D25D010-EU4DR3020359030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571.8 lumens
Efficiency: N/A
Efficacy: 102.5 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): 25.1
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

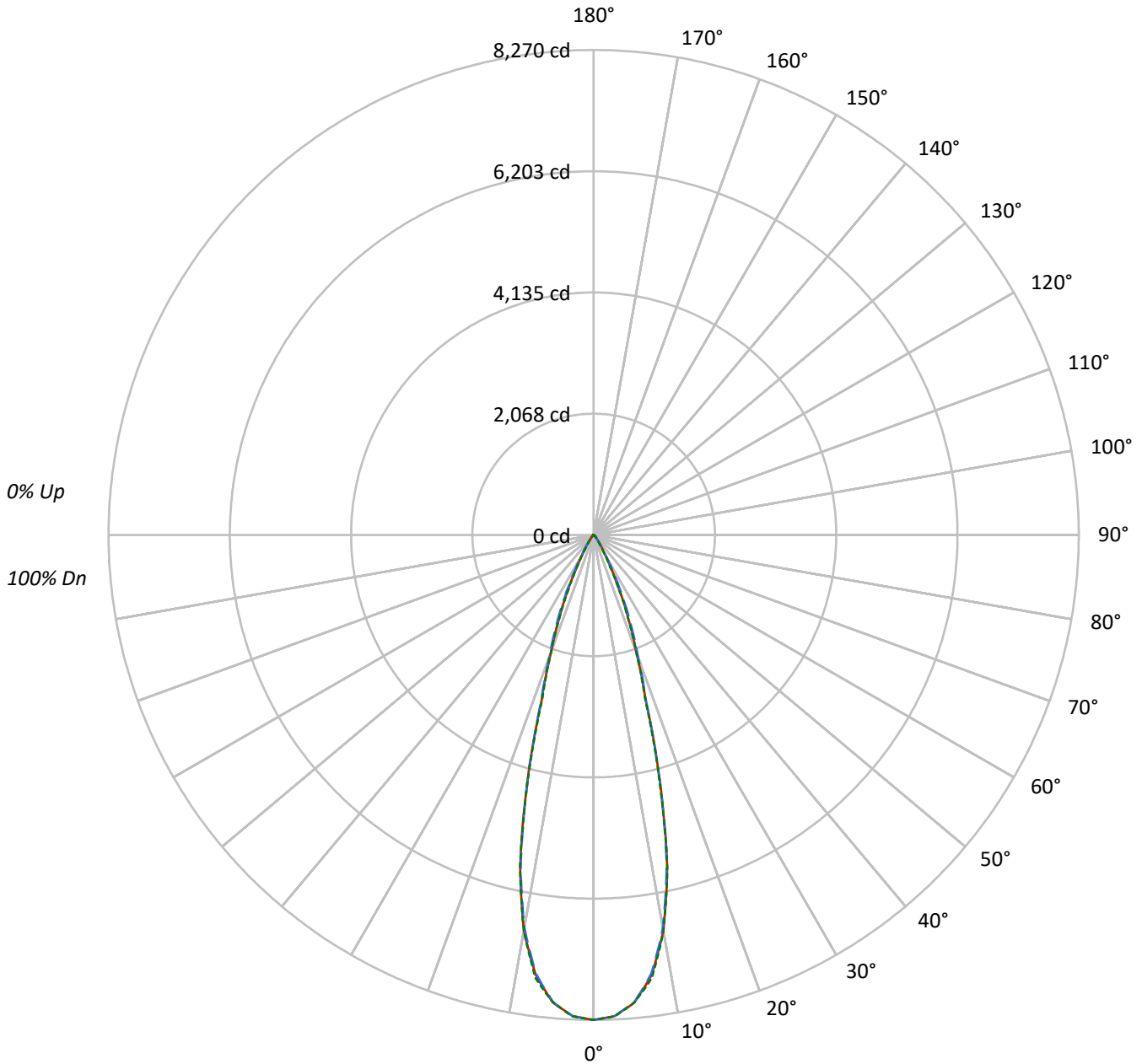


Downlight



TEST NUMBER: P745064
CATALOG NUMBER: LD4D25D010-EU4DR3020359030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P745064

CATALOG NUMBER: LD4D25D010-EU4DR3020359030-4LBS1LI

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																			
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°	632983	632983	632983
5°	614817	614095	614848
10°	532527	528766	532395
15°	347443	345581	343838
20°	172768	179252	172531
25°	87032	98138	85250
30°	34841	37961	30360
35°	16166	15474	12979
40°	6974	7744	6575
45°	4925	6105	4969
50°	1691	4454	1786
55°	974	1842	1028
60°	689	811	689
65°	453	453	453
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6105 cd/sqm



TEST NUMBER: P745064

CATALOG NUMBER: LD4D25D010-EU4DR3020359030-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.2	28.3
10°-20°	1171.1	45.5
20°-30°	506.1	19.7
30°-40°	115.3	4.5
40°-50°	39.6	1.5
50°-60°	9.7	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2404.4	93.5
0°-40°	2519.8	98.0
0°-60°	2569.0	99.9
0°-90°	2571.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8270	8270	8270	8270	8270	
5°	8002	7994	7992	8009	8002	728
15°	4384	4332	4361	4347	4339	1174
25°	1030	1069	1162	1042	1009	493
35°	173	177	166	164	139	117
45°	46	56	56	56	46	32
55°	7	8	14	8	8	7
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: P745064

CATALOG NUMBER: LD4D25D010-EU4DR3020359030-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8269.6	8269.6	8269.6	8269.6	8269.6
2.5°	8214.8	8209.1	8212.4	8216.5	8218.1
5°	8001.7	7994.0	7992.3	8009.0	8002.1
7.5°	7571.7	7560.7	7544.1	7581.9	7617.2
10°	6851.5	6839.3	6803.1	6821.0	6849.8
12.5°	5788.1	5748.7	5747.9	5804.7	5797.0
15°	4384.5	4331.7	4361.0	4346.7	4339.0
17.5°	2948.5	2928.2	2967.1	2955.3	2904.6
20°	2121.0	2126.3	2200.6	2163.2	2118.1
22.5°	1547.7	1566.8	1654.9	1558.7	1523.4
25°	1030.5	1069.4	1162.0	1042.3	1009.4
27.5°	633.8	651.7	745.4	625.7	607.8
30°	394.2	385.3	429.5	368.6	343.5
32.5°	258.6	247.3	261.5	234.7	214.4
35°	173.0	176.6	165.6	164.4	138.9
37.5°	108.0	124.2	109.6	116.9	89.3
40°	69.8	90.1	77.5	85.7	65.8
42.5°	57.2	69.4	63.8	67.8	58.4
45°	45.5	56.4	56.4	56.4	45.9
47.5°	25.2	37.8	48.3	38.6	26.8
50°	14.2	19.1	37.4	19.9	15.0
52.5°	9.7	10.9	25.6	11.3	10.1
55°	7.3	7.7	13.8	8.1	7.7
57.5°	5.7	6.1	7.3	6.1	5.7
60°	4.5	4.5	5.3	4.9	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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)