

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: P745086

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745086
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-EU4DR3020359040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2650.6 lumens
Efficiency: N/A
Efficacy: 105.6 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

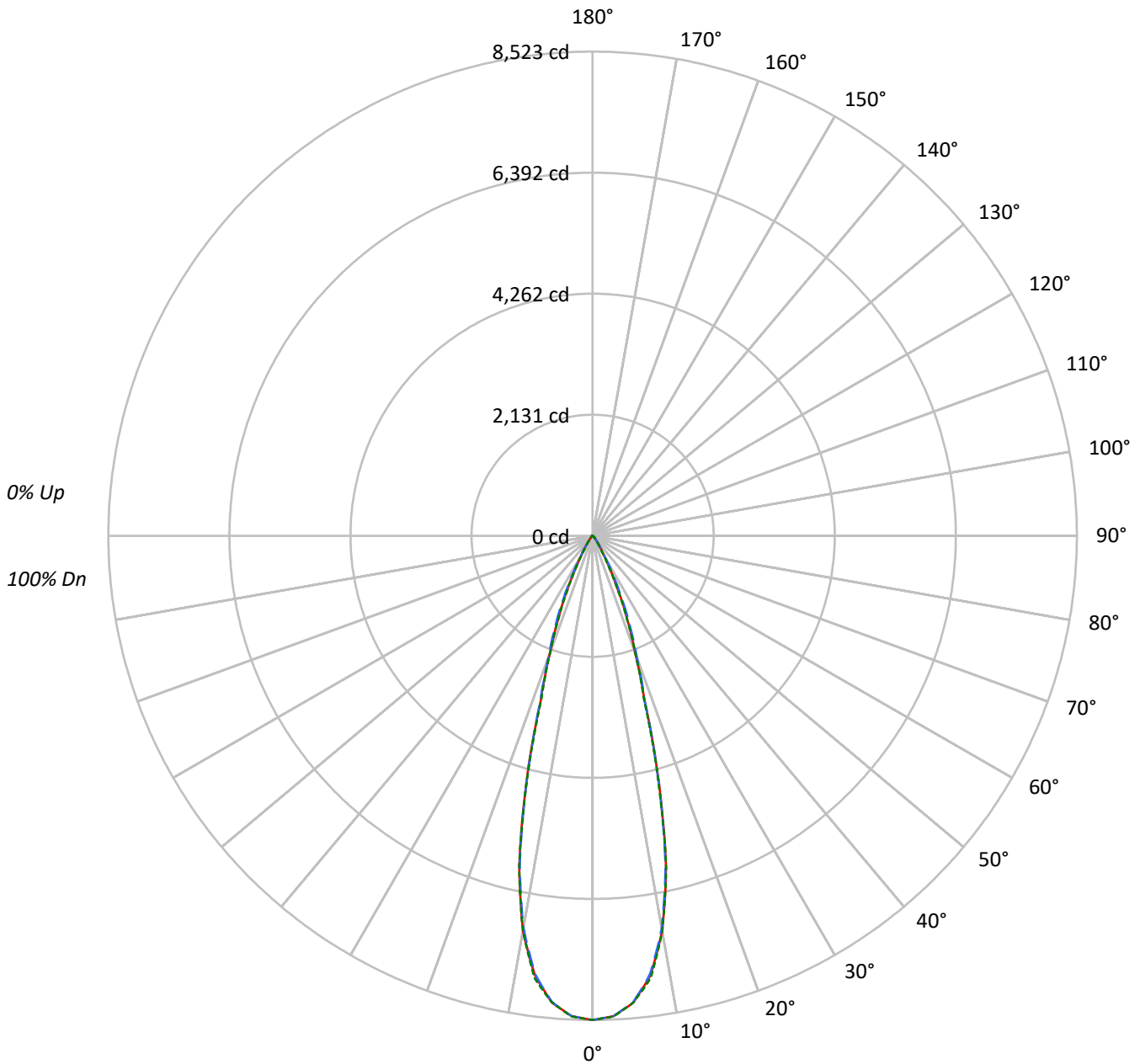


Downlight



TEST NUMBER: P745086
CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P745086

CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBDP1LI

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	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°	652372	652372	652372
5°	633642	632904	633672
10°	548826	544955	548702
15°	358078	356160	354369
20°	178062	184742	177818
25°	89693	101145	87851
30°	35911	39128	31288
35°	16651	15951	13372
40°	7194	7984	6775
45°	5077	6300	5120
50°	1750	4585	1846
55°	1001	1895	1068
60°	704	827	704
65°	453	453	453
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6300 cd/sqm



TEST NUMBER: P745086

CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.5	28.3
10°-20°	1207.0	45.5
20°-30°	521.6	19.7
30°-40°	118.9	4.5
40°-50°	40.8	1.5
50°-60°	10.0	0.4
60°-70°	2.6	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°	2478.0	93.5
0°-40°	2596.9	98.0
0°-60°	2647.7	99.9
0°-90°	2650.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2650.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8523	8523	8523	8523	8523	
5°	8247	8239	8237	8254	8247	750
15°	4519	4464	4494	4480	4472	1210
25°	1062	1102	1198	1074	1040	508
35°	178	182	171	170	143	121
45°	47	58	58	58	47	33
55°	8	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: P745086

CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8522.9	8522.9	8522.9	8522.9	8522.9
2.5°	8466.4	8460.5	8463.9	8468.0	8469.7
5°	8246.7	8238.7	8237.1	8254.2	8247.1
7.5°	7803.5	7792.2	7775.1	7814.0	7850.4
10°	7061.2	7048.7	7011.4	7029.9	7059.6
12.5°	5965.3	5924.8	5923.9	5982.5	5974.6
15°	4518.7	4464.4	4494.5	4479.8	4471.9
17.5°	3038.8	3017.8	3058.0	3045.9	2993.6
20°	2186.0	2191.4	2268.0	2229.5	2183.0
22.5°	1595.1	1614.7	1705.6	1606.4	1570.0
25°	1062.0	1102.2	1197.6	1074.2	1040.2
27.5°	653.2	671.6	768.3	644.8	626.4
30°	406.3	397.1	442.7	379.9	354.0
32.5°	266.5	254.8	269.5	241.8	220.9
35°	178.2	182.0	170.7	169.5	143.1
37.5°	111.3	128.1	113.0	120.5	92.1
40°	72.0	92.9	79.9	88.3	67.8
42.5°	59.0	71.6	65.7	69.9	60.3
45°	46.9	58.2	58.2	58.2	47.3
47.5°	26.0	38.9	49.8	39.8	27.6
50°	14.7	19.7	38.5	20.5	15.5
52.5°	10.0	11.3	26.4	11.7	10.5
55°	7.5	8.0	14.2	8.4	8.0
57.5°	5.8	6.3	7.5	6.3	5.8
60°	4.6	4.6	5.4	5.0	4.6
62.5°	3.3	3.3	3.8	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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)