

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: P745091

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745091
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-EU4DR3020359040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2525.8 lumens
Efficiency: N/A
Efficacy: 100.6 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

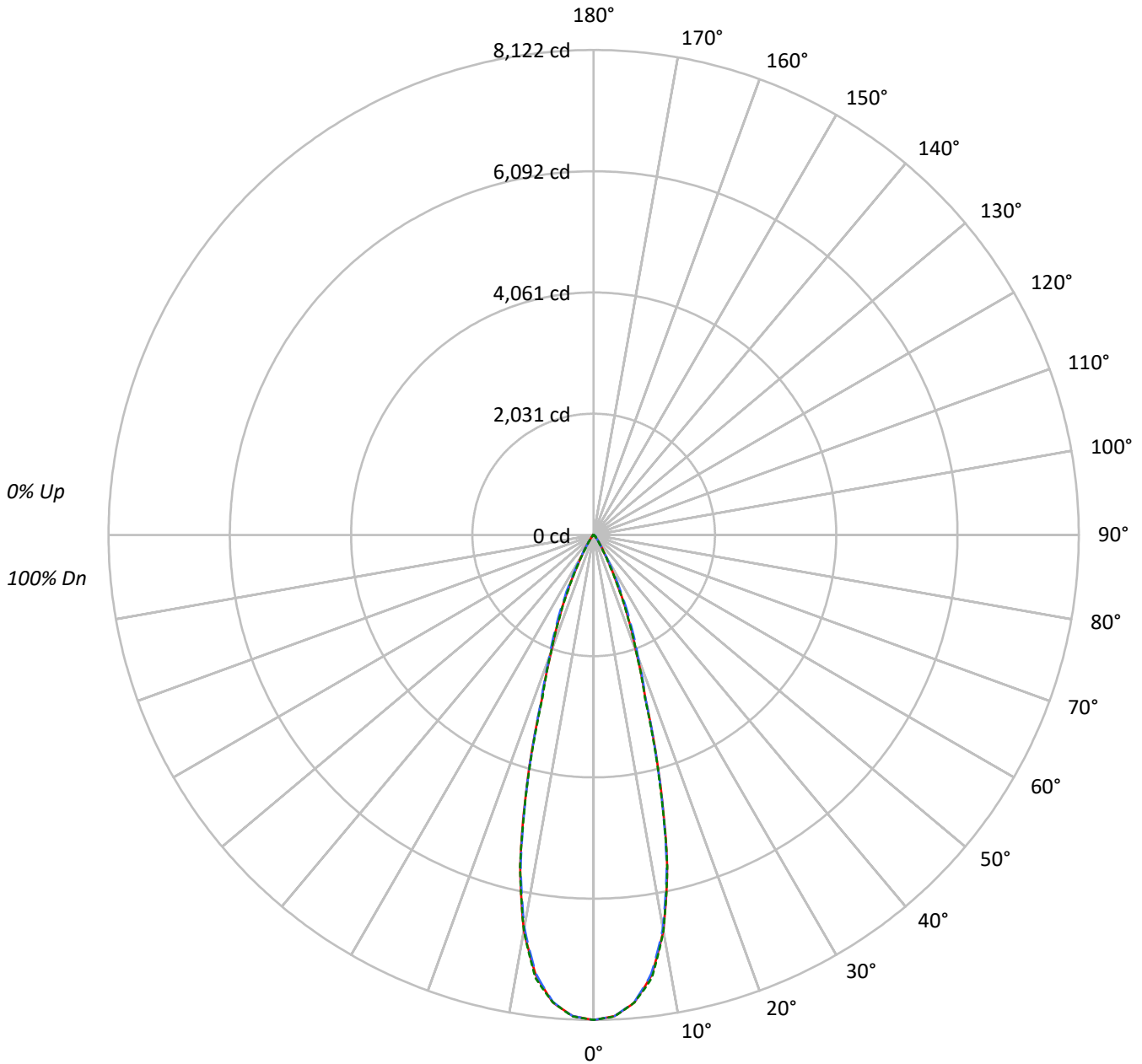


Downlight



TEST NUMBER: P745091
CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P745091

CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBS1MW

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°	621662	621662	621662
5°	603814	603115	603845
10°	522998	519314	522874
15°	341231	339400	337688
20°	169681	176042	169452
25°	85470	96382	83722
30°	34223	37290	29821
35°	15876	15203	12746
40°	6855	7604	6455
45°	4828	5997	4871
50°	1667	4370	1762
55°	961	1815	1014
60°	674	796	674
65°	435	435	435
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: 5997 cd/sqm



TEST NUMBER: P745091

CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.2	28.3
10°-20°	1150.2	45.5
20°-30°	497.0	19.7
30°-40°	113.3	4.5
40°-50°	38.9	1.5
50°-60°	9.5	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°	2361.4	93.5
0°-40°	2474.7	98.0
0°-60°	2523.1	99.9
0°-90°	2525.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2525.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8122	8122	8122	8122	8122	
5°	7858	7851	7849	7866	7859	715
15°	4306	4254	4283	4269	4261	1153
25°	1012	1050	1141	1024	991	484
35°	170	173	163	162	136	115
45°	45	55	55	55	45	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	0



TEST NUMBER: P745091

CATALOG NUMBER: LD4D25D010-EU4DR3020359040-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8121.7	8121.7	8121.7	8121.7	8121.7
2.5°	8067.9	8062.3	8065.5	8069.5	8071.1
5°	7858.5	7851.0	7849.4	7865.8	7858.9
7.5°	7436.3	7425.5	7409.2	7446.2	7481.0
10°	6728.9	6716.9	6681.5	6699.0	6727.3
12.5°	5684.6	5645.9	5645.1	5700.9	5693.4
15°	4306.1	4254.3	4283.0	4269.0	4261.4
17.5°	2895.7	2875.8	2914.1	2902.5	2852.7
20°	2083.1	2088.2	2161.2	2124.6	2080.3
22.5°	1520.0	1538.8	1625.3	1530.8	1496.1
25°	1012.0	1050.3	1141.2	1023.6	991.3
27.5°	622.5	640.0	732.1	614.5	596.9
30°	387.2	378.4	421.9	362.0	337.4
32.5°	254.0	242.8	256.8	230.5	210.6
35°	169.9	173.4	162.7	161.5	136.4
37.5°	106.1	122.0	107.7	114.8	87.7
40°	68.6	88.5	76.1	84.1	64.6
42.5°	56.2	68.2	62.6	66.6	57.4
45°	44.6	55.4	55.4	55.4	45.0
47.5°	24.7	37.1	47.4	37.9	26.3
50°	14.0	18.7	36.7	19.5	14.8
52.5°	9.6	10.8	25.1	11.2	10.0
55°	7.2	7.6	13.6	8.0	7.6
57.5°	5.6	6.0	7.2	6.0	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
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)