

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: P746757

Luminaire Tested: LD4D35BD010-EU4DR3020359024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746757
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: LD4D35BD010-EU4DR3020359024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

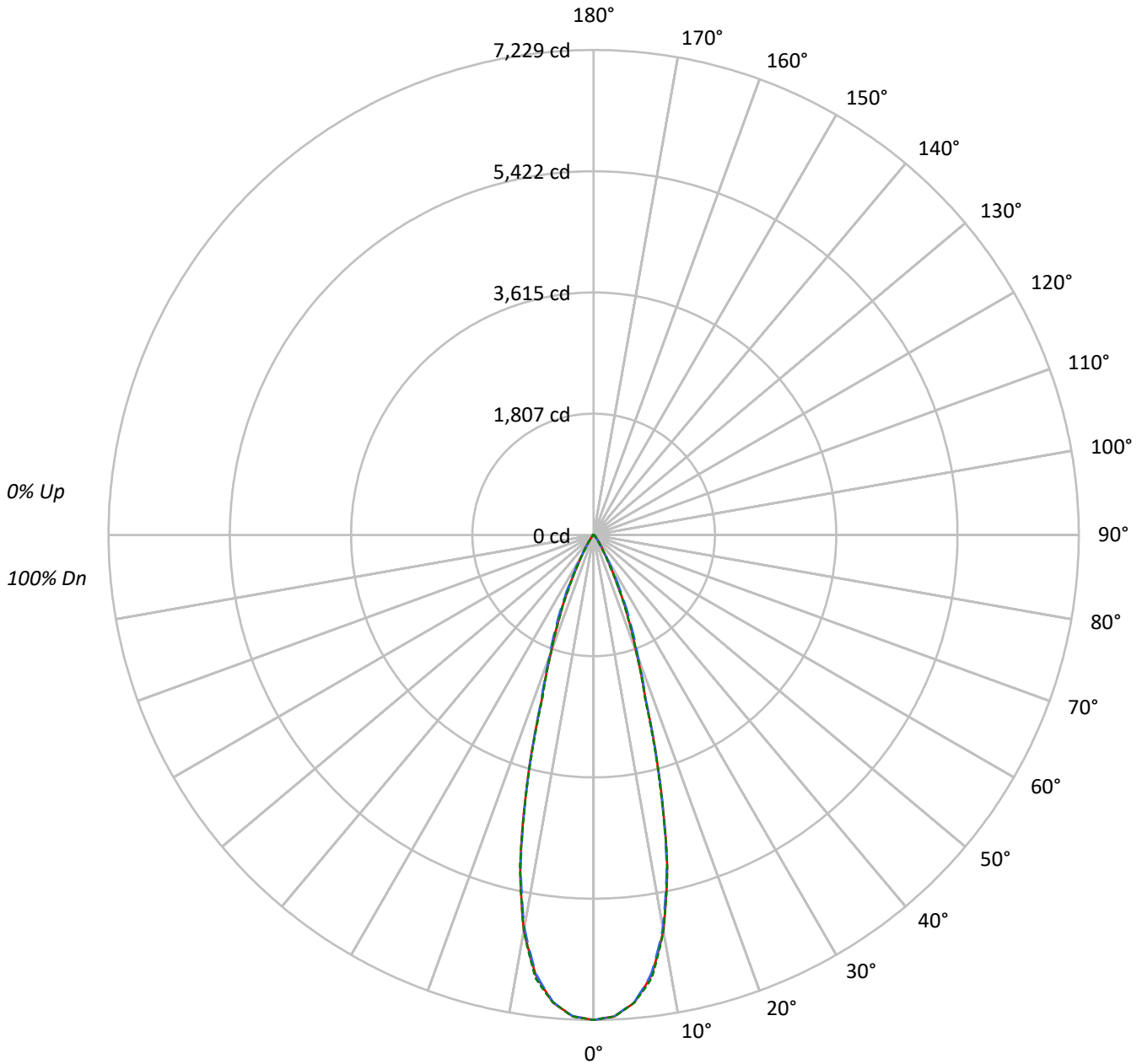
Lumens per Lamp: N/A
Luminaire Lumens: 2248.2 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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



TEST NUMBER: P746757
CATALOG NUMBER: LD4D35BD010-EU4DR3020359024-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P746757

CATALOG NUMBER: LD4D35BD010-EU4DR3020359024-4LBSQW1MW

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°	553332	553332	553332
5°	537443	536821	537474
10°	465514	462226	465397
15°	303725	302092	300571
20°	151027	156696	150824
25°	76078	85791	74516
30°	30457	33188	26542
35°	14128	13530	11344
40°	6095	6775	5745
45°	4308	5337	4341
50°	1477	3894	1560
55°	854	1615	894
60°	597	704	597
65°	380	380	380
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5337 cd/sqm



TEST NUMBER: P746757

CATALOG NUMBER: LD4D35BD010-EU4DR3020359024-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.7	28.3
10°-20°	1023.8	45.5
20°-30°	442.4	19.7
30°-40°	100.8	4.5
40°-50°	34.6	1.5
50°-60°	8.5	0.4
60°-70°	2.2	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°	2101.8	93.5
0°-40°	2202.7	98.0
0°-60°	2245.7	99.9
0°-90°	2248.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7229	7229	7229	7229	7229	
5°	6995	6988	6987	7001	6995	636
15°	3833	3787	3812	3800	3793	1026
25°	901	935	1016	911	882	431
35°	151	154	145	144	121	103
45°	40	49	49	49	40	28
55°	6	7	12	7	7	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	0



TEST NUMBER: P746757

CATALOG NUMBER: LD4D35BD010-EU4DR3020359024-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7229.0	7229.0	7229.0	7229.0	7229.0
2.5°	7181.1	7176.1	7178.9	7182.5	7183.9
5°	6994.7	6988.0	6986.6	7001.1	6995.1
7.5°	6618.9	6609.3	6594.8	6627.8	6658.6
10°	5989.3	5978.6	5947.0	5962.6	5987.8
12.5°	5059.7	5025.3	5024.6	5074.3	5067.5
15°	3832.8	3786.6	3812.2	3799.8	3793.0
17.5°	2577.4	2559.7	2593.7	2583.5	2539.1
20°	1854.1	1858.7	1923.7	1891.0	1851.6
22.5°	1353.0	1369.6	1446.6	1362.5	1331.7
25°	900.8	934.9	1015.8	911.1	882.3
27.5°	554.0	569.6	651.6	546.9	531.3
30°	344.6	336.8	375.5	322.3	300.3
32.5°	226.1	216.1	228.6	205.1	187.4
35°	151.2	154.4	144.8	143.7	121.4
37.5°	94.4	108.6	95.8	102.2	78.1
40°	61.0	78.8	67.8	74.9	57.5
42.5°	50.0	60.7	55.7	59.3	51.1
45°	39.8	49.3	49.3	49.3	40.1
47.5°	22.0	33.0	42.2	33.7	23.4
50°	12.4	16.7	32.7	17.4	13.1
52.5°	8.5	9.6	22.4	9.9	8.9
55°	6.4	6.7	12.1	7.1	6.7
57.5°	5.0	5.3	6.4	5.3	5.0
60°	3.9	3.9	4.6	4.3	3.9
62.5°	2.8	2.8	3.2	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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)