

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: P747575

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747575
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: LD4D40BD010-EU4DR3040509035-4LBSQW1B
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

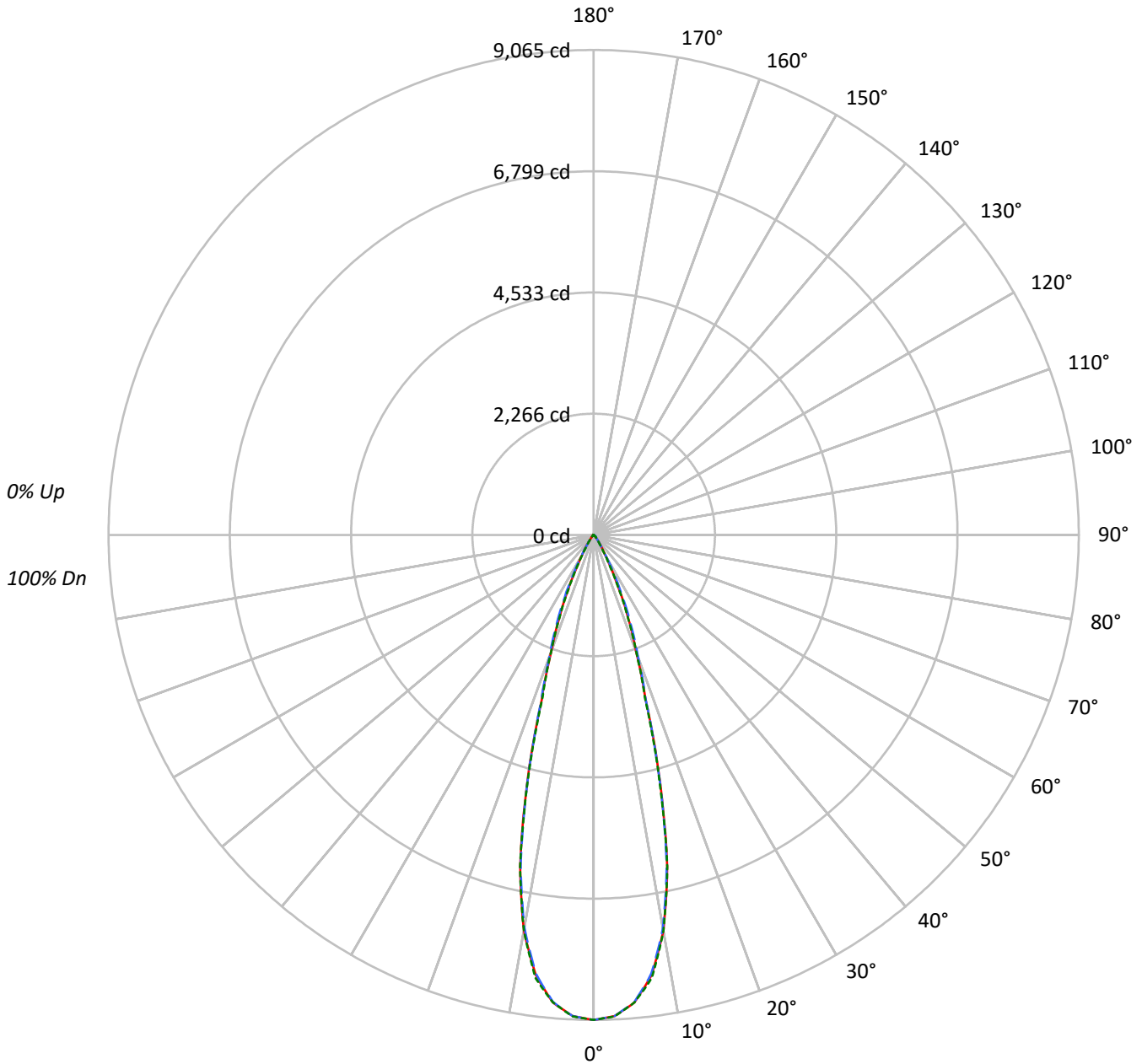
Lumens per Lamp: N/A
Luminaire Lumens: 2819.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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: P747575
CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P747575

CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBSQW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					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°	693851	693851	693851
5°	673927	673143	673965
10°	583724	579605	583584
15°	380852	378808	376898
20°	189377	196488	189124
25°	95393	107572	93442
30°	38191	41620	33277
35°	17717	16969	14222
40°	7644	8493	7204
45°	5391	6701	5445
50°	1858	4870	1965
55°	1068	2015	1134
60°	750	888	750
65°	489	489	489
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: 6701 cd/sqm



TEST NUMBER: P747575

CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	797.1	28.3
10°-20°	1283.7	45.5
20°-30°	554.7	19.7
30°-40°	126.4	4.5
40°-50°	43.4	1.5
50°-60°	10.6	0.4
60°-70°	2.8	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°	2635.6	93.5
0°-40°	2762.0	98.0
0°-60°	2816.1	99.9
0°-90°	2819.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2819.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9065	9065	9065	9065	9065	
5°	8771	8763	8761	8779	8772	798
15°	4806	4748	4780	4765	4756	1287
25°	1130	1172	1274	1142	1106	541
35°	190	194	182	180	152	129
45°	50	62	62	62	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P747575

CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9064.8	9064.8	9064.8	9064.8	9064.8
2.5°	9004.7	8998.4	9002.0	9006.4	9008.2
5°	8771.0	8762.6	8760.8	8779.0	8771.5
7.5°	8299.7	8287.7	8269.4	8310.8	8349.6
10°	7510.2	7496.8	7457.2	7476.8	7508.4
12.5°	6344.6	6301.4	6300.6	6362.9	6354.4
15°	4806.1	4748.2	4780.3	4764.7	4756.2
17.5°	3231.9	3209.7	3252.4	3239.5	3183.9
20°	2324.9	2330.7	2412.2	2371.2	2321.8
22.5°	1696.5	1717.4	1814.0	1708.5	1669.8
25°	1129.5	1172.3	1273.7	1142.4	1106.4
27.5°	694.7	714.3	817.1	685.8	666.2
30°	432.1	422.4	470.9	404.1	376.5
32.5°	283.5	271.0	286.6	257.2	235.0
35°	189.6	193.6	181.6	180.2	152.2
37.5°	118.4	136.2	120.2	128.2	97.9
40°	76.5	98.8	85.0	93.9	72.1
42.5°	62.8	76.1	69.9	74.3	64.1
45°	49.8	61.9	61.9	61.9	50.3
47.5°	27.6	41.4	53.0	42.3	29.4
50°	15.6	20.9	40.9	21.8	16.5
52.5°	10.7	12.0	28.0	12.5	11.1
55°	8.0	8.5	15.1	8.9	8.5
57.5°	6.2	6.7	8.0	6.7	6.2
60°	4.9	4.9	5.8	5.3	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
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)