

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: P754816

Luminaire Tested: LD4D85BD010-EU4DR4570959030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR4570959030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

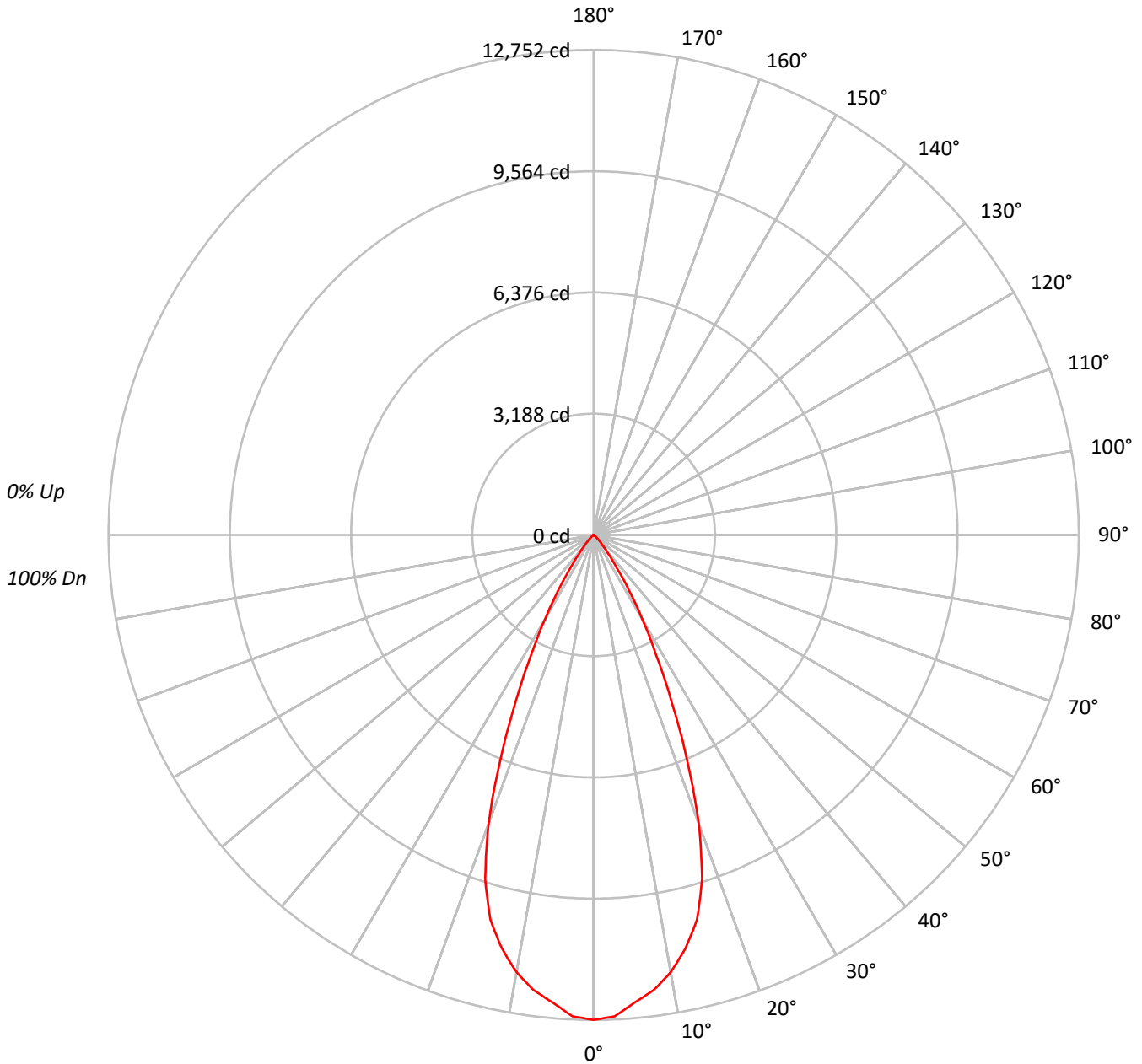
Lumens per Lamp: N/A
Luminaire Lumens: 7214.7 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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: P754816
CATALOG NUMBER: LD4D85BD010-EU4DR4570959030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P754816

CATALOG NUMBER: LD4D85BD010-EU4DR4570959030-4LBSQW1B

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						100													
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95						95													
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90						90													
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85						85													
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81						81													
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77						77													
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73						73													
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69						69													
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66						66													
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63						63													
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60						60													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1393304
5°	1353636
10°	1295065
15°	1185253
20°	940322
25°	587059
30°	323571
35°	145294
40°	57223
45°	26963
50°	12782
55°	6686
60°	3278
65°	776
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26963 cd/sqm



TEST NUMBER: P754816

CATALOG NUMBER: LD4D85BD010-EU4DR4570959030-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.6	16.1
10°-20°	2854.0	39.6
20°-30°	2260.1	31.3
30°-40°	752.6	10.4
40°-50°	149.4	2.1
50°-60°	33.9	0.5
60°-70°	4.9	0.1
70°-80°	0.1	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°	6273.8	87.0
0°-40°	7026.4	97.4
0°-60°	7209.7	99.9
0°-90°	7214.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7214.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12752	
5°	12342	###
15°	10478	2854
25°	4870	2260
35°	1089	753
45°	174	149
55°	35	34
65°	3	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P754816
CATALOG NUMBER: LD4D85BD010-EU4DR4570959030-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	12752.1
2.5°	12668.9
5°	12341.9
7.5°	12072.1
10°	11672.9
12.5°	11141.3
15°	10478.3
17.5°	9481.4
20°	8087.2
22.5°	6426.2
25°	4869.6
27.5°	3565.7
30°	2564.7
32.5°	1744.2
35°	1089.3
37.5°	645.9
40°	401.2
42.5°	263.8
45°	174.5
47.5°	112.3
50°	75.2
52.5°	50.1
55°	35.1
57.5°	23.1
60°	15.0
62.5°	8.0
65°	3.0
67.5°	1.0
70°	1.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

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)