

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: P755245

Luminaire Tested: LD4D85BD010-EU4DR7070959050-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR7070959050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

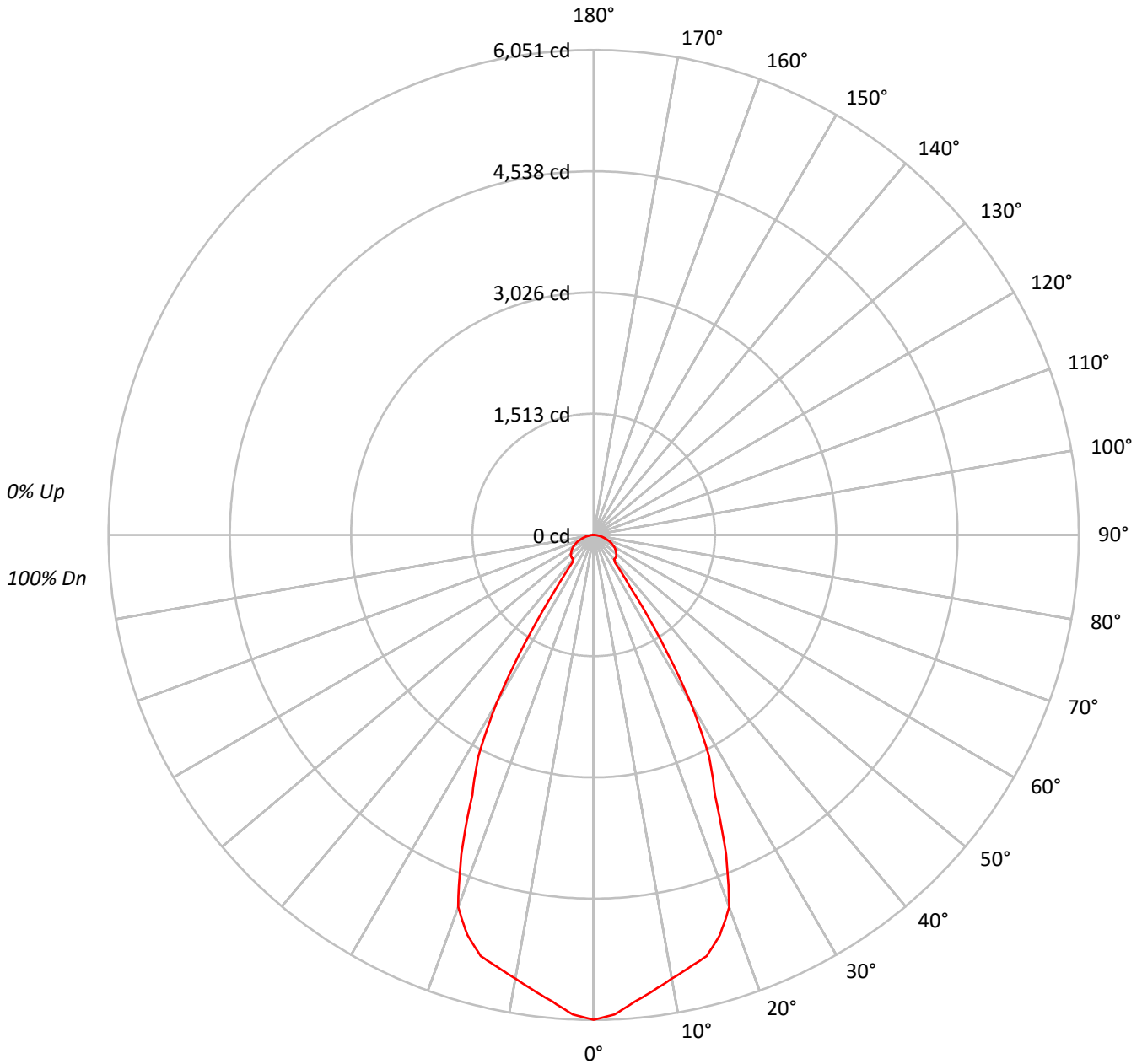
Lumens per Lamp: N/A
Luminaire Lumens: 5381.7 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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: P755245
CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P755245
 CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBSQW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70				
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65				
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61				
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57				
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50				
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	661093
5°	641441
10°	623562
15°	615380
20°	574644
25°	431699
30°	305177
35°	108093
40°	56838
45°	60540
50°	62688
55°	63871
60°	64267
65°	62901
70°	59355
75°	55006
80°	48827
85°	39615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 64279 cd/sqm



TEST NUMBER: P755245

CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.6	10.3
10°-20°	1513.1	28.1
20°-30°	1666.5	31.0
30°-40°	636.7	11.8
40°-50°	300.6	5.6
50°-60°	298.9	5.6
60°-70°	239.3	4.4
70°-80°	137.5	2.6
80°-90°	37.4	0.7
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°	3731.2	69.3
0°-40°	4367.9	81.2
0°-60°	4967.4	92.3
0°-90°	5381.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5381.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6051	
5°	5848	552
15°	5440	1513
25°	3581	1666
35°	810	637
45°	392	301
55°	335	299
65°	243	239
75°	130	138
85°	32	37
90°	0	



TEST NUMBER: P755245

CATALOG NUMBER: LD4D85BD010-EU4DR7070959050-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	6050.6
2.5°	5987.3
5°	5848.4
7.5°	5732.5
10°	5620.4
12.5°	5525.6
15°	5440.3
17.5°	5234.4
20°	4942.2
22.5°	4311.8
25°	3580.9
27.5°	3117.3
30°	2418.9
32.5°	1562.5
35°	810.4
37.5°	437.8
40°	398.5
42.5°	395.6
45°	391.8
47.5°	383.2
50°	368.8
52.5°	352.5
55°	335.3
57.5°	316.1
60°	294.1
62.5°	269.2
65°	243.3
67.5°	214.6
70°	185.8
72.5°	157.1
75°	130.3
77.5°	102.5
80°	77.6
82.5°	54.6
85°	31.6
87.5°	12.5
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)