

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: P755076

Luminaire Tested: LD4D85BD010-EU4DR6070959040-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6070959040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

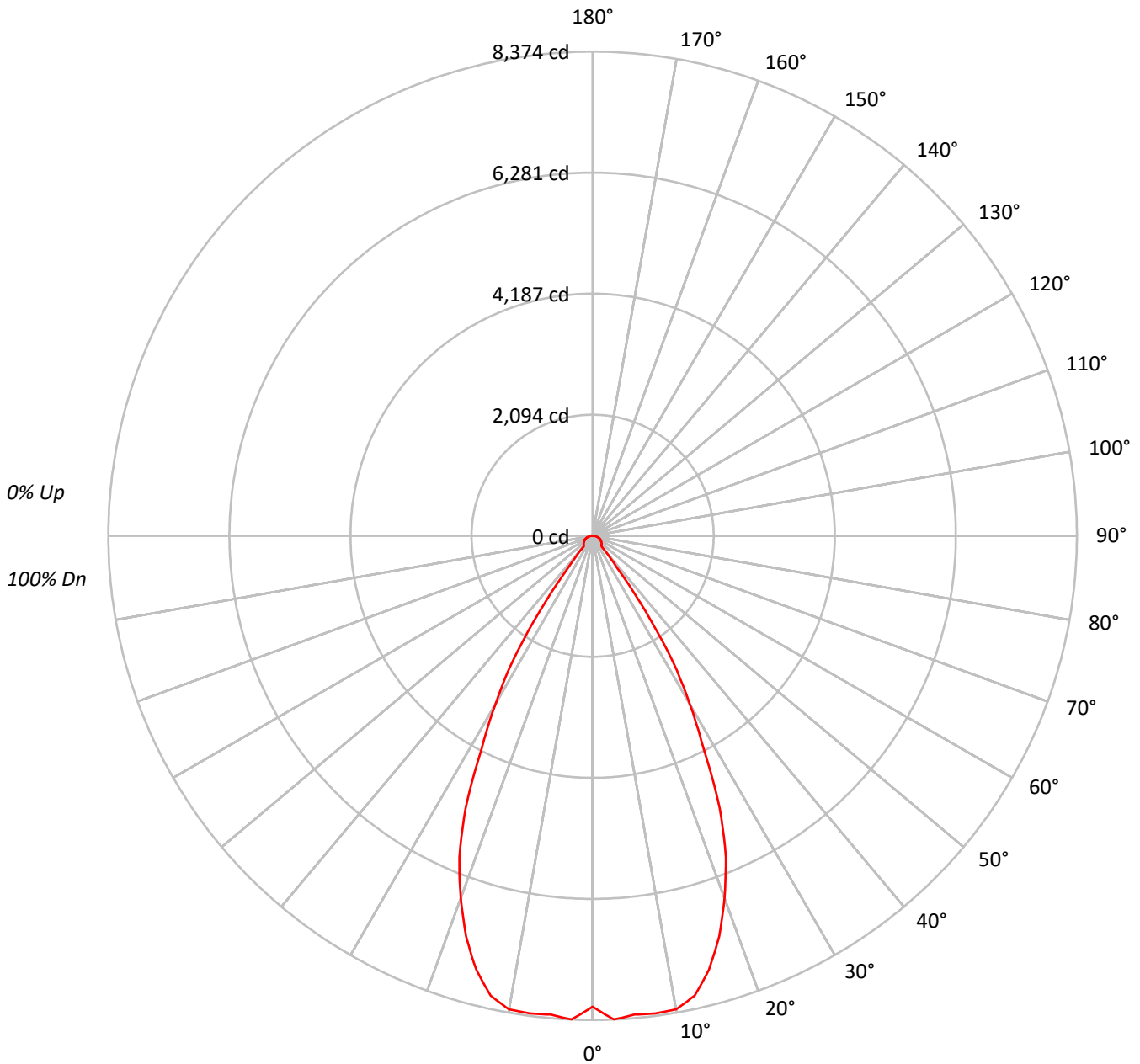
Lumens per Lamp: N/A
Luminaire Lumens: 6858.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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: P755076
CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P755076

CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBSQW1B

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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	889907
5°	911787
10°	922807
15°	879096
20°	775087
25°	626915
30°	424061
35°	212492
40°	34474
45°	33747
50°	34421
55°	34936
60°	35903
65°	36712
70°	37600
75°	38036
80°	36683
85°	30588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 38036 cd/sqm



TEST NUMBER: P755076

CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.5	11.6
10°-20°	2149.7	31.3
20°-30°	2312.9	33.7
30°-40°	1005.4	14.7
40°-50°	168.9	2.5
50°-60°	164.2	2.4
60°-70°	140.4	2.0
70°-80°	94.0	1.4
80°-90°	28.1	0.4
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°	5257.1	76.7
0°-40°	6262.5	91.3
0°-60°	6595.6	96.2
0°-90°	6858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6858.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8145	
5°	8313	795
15°	7772	2150
25°	5200	2313
35°	1593	1005
45°	218	169
55°	183	164
65°	142	140
75°	90	94
85°	24	28
90°	0	



TEST NUMBER: P755076
CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	8144.8
2.5°	8373.7
5°	8313.3
7.5°	8332.4
10°	8317.6
12.5°	8145.9
15°	7771.7
17.5°	7269.3
20°	6666.1
22.5°	6020.6
25°	5200.2
27.5°	4159.3
30°	3361.2
32.5°	2590.6
35°	1593.1
37.5°	681.6
40°	241.7
42.5°	222.6
45°	218.4
47.5°	210.9
50°	202.5
52.5°	192.9
55°	183.4
57.5°	173.8
60°	164.3
62.5°	153.7
65°	142.0
67.5°	130.4
70°	117.7
72.5°	103.9
75°	90.1
77.5°	74.2
80°	58.3
82.5°	41.3
85°	24.4
87.5°	8.5
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)