

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: P754309

Luminaire Tested: LD4D80BD010-EU4DR6070959050-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754309
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: LD4D80BD010-EU4DR6070959050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

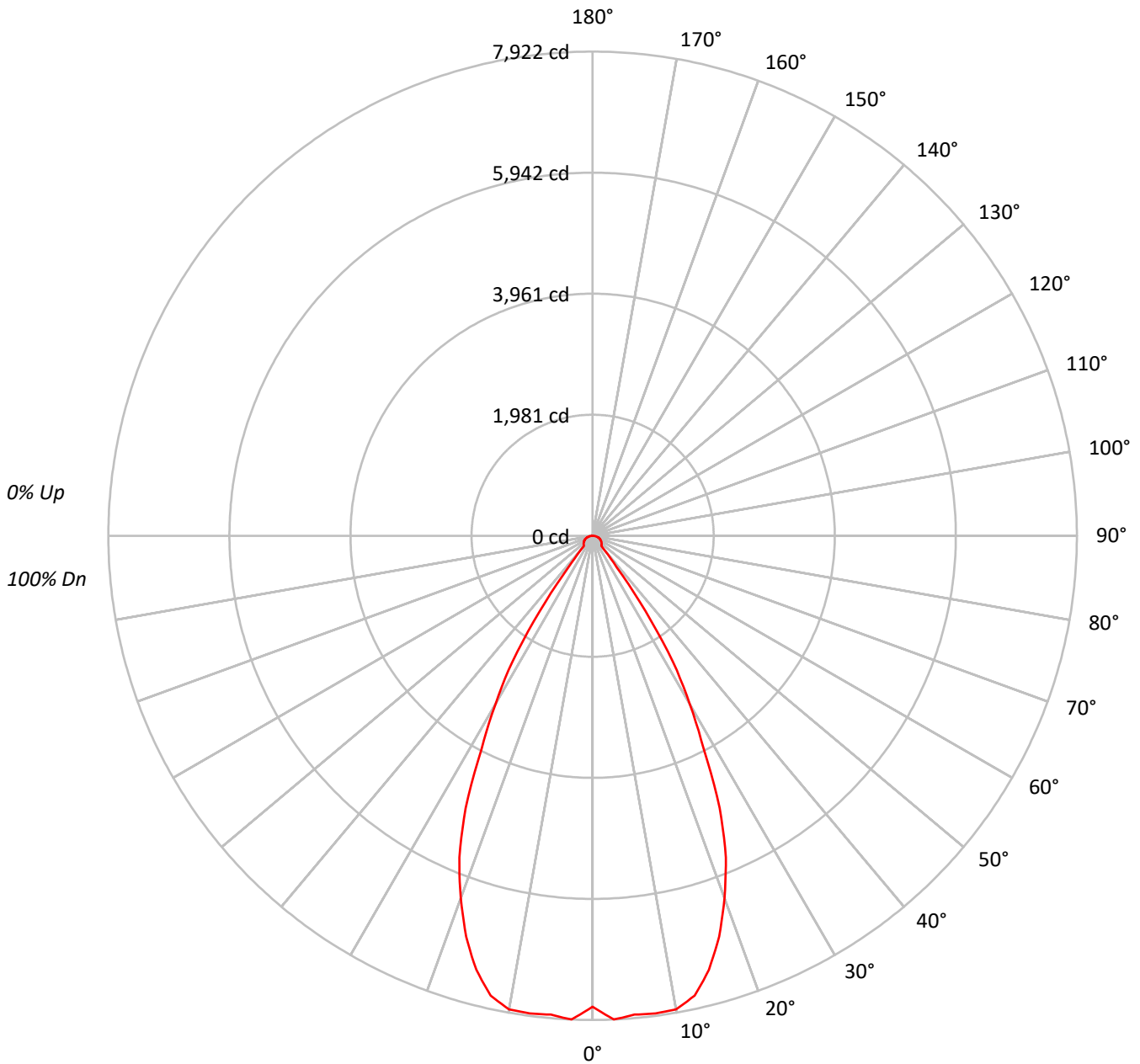
Lumens per Lamp: N/A
Luminaire Lumens: 6488.1 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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: P754309
CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P754309

CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBSQW1B

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	841898
5°	862607
10°	873025
15°	831667
20°	733275
25°	593099
30°	401175
35°	201034
40°	32605
45°	31923
50°	32551
55°	33050
60°	33958
65°	34747
70°	35556
75°	35967
80°	34732
85°	28959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 35967 cd/sqm



TEST NUMBER: P754309

CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.7	11.6
10°-20°	2033.7	31.3
20°-30°	2188.1	33.7
30°-40°	951.1	14.7
40°-50°	159.8	2.5
50°-60°	155.3	2.4
60°-70°	132.8	2.0
70°-80°	88.9	1.4
80°-90°	26.6	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°	4973.5	76.7
0°-40°	5924.6	91.3
0°-60°	6239.7	96.2
0°-90°	6488.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6488.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7705	
5°	7865	752
15°	7352	2034
25°	4920	2188
35°	1507	951
45°	207	160
55°	174	155
65°	134	133
75°	85	89
85°	23	27
90°	0	



TEST NUMBER: P754309

CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	7705.4
2.5°	7922.0
5°	7864.9
7.5°	7882.9
10°	7868.9
12.5°	7706.4
15°	7352.4
17.5°	6877.1
20°	6306.5
22.5°	5695.8
25°	4919.7
27.5°	3934.9
30°	3179.8
32.5°	2450.8
35°	1507.2
37.5°	644.8
40°	228.6
42.5°	210.6
45°	206.6
47.5°	199.6
50°	191.5
52.5°	182.5
55°	173.5
57.5°	164.5
60°	155.4
62.5°	145.4
65°	134.4
67.5°	123.3
70°	111.3
72.5°	98.3
75°	85.2
77.5°	70.2
80°	55.2
82.5°	39.1
85°	23.1
87.5°	8.0
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)