

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: P754413

Luminaire Tested: LD4D80BD010-EU4DR7070959027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754413
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: LD4D80BD010-EU4DR7070959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

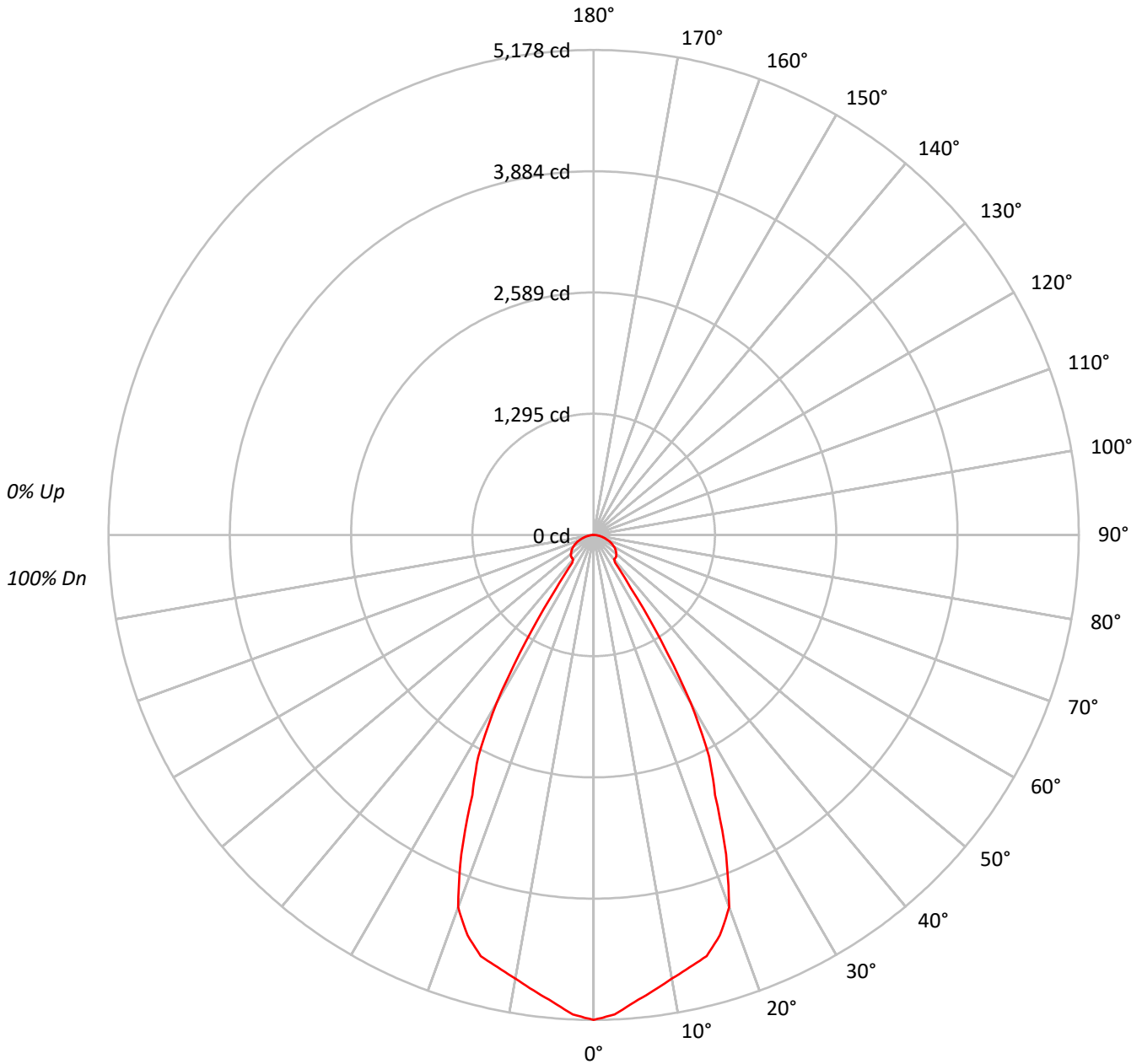
Lumens per Lamp: N/A
Luminaire Lumens: 4606.1 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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Luminous Intensity Polar Plot





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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
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°	565807
5°	548994
10°	533696
15°	526686
20°	491823
25°	369480
30°	261196
35°	92514
40°	48651
45°	51810
50°	53663
55°	54671
60°	55002
65°	53852
70°	50826
75°	47070
80°	41779
85°	33973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 55027 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.1	10.2
10°-20°	1295.0	28.1
20°-30°	1426.3	31.0
30°-40°	545.0	11.8
40°-50°	257.3	5.6
50°-60°	255.8	5.6
60°-70°	204.8	4.4
70°-80°	117.7	2.6
80°-90°	32.0	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°	3193.5	69.3
0°-40°	3738.4	81.2
0°-60°	4251.5	92.3
0°-90°	4606.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5178	
5°	5006	472
15°	4656	1295
25°	3065	1426
35°	694	545
45°	335	257
55°	287	256
65°	208	205
75°	112	118
85°	27	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5178.5
2.5°	5124.4
5°	5005.5
7.5°	4906.3
10°	4810.4
12.5°	4729.2
15°	4656.2
17.5°	4480.0
20°	4229.9
22.5°	3690.4
25°	3064.8
27.5°	2668.0
30°	2070.3
32.5°	1337.3
35°	693.6
37.5°	374.7
40°	341.1
42.5°	338.6
45°	335.3
47.5°	328.0
50°	315.7
52.5°	301.7
55°	287.0
57.5°	270.6
60°	251.7
62.5°	230.4
65°	208.3
67.5°	183.7
70°	159.1
72.5°	134.5
75°	111.5
77.5°	87.7
80°	66.4
82.5°	46.7
85°	27.1
87.5°	10.7
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

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— 0°-180°

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