

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: P756012

Luminaire Tested: LD4D90BD010-EU4DR7070959040-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P756012
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: LD4D90BD010-EU4DR7070959040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

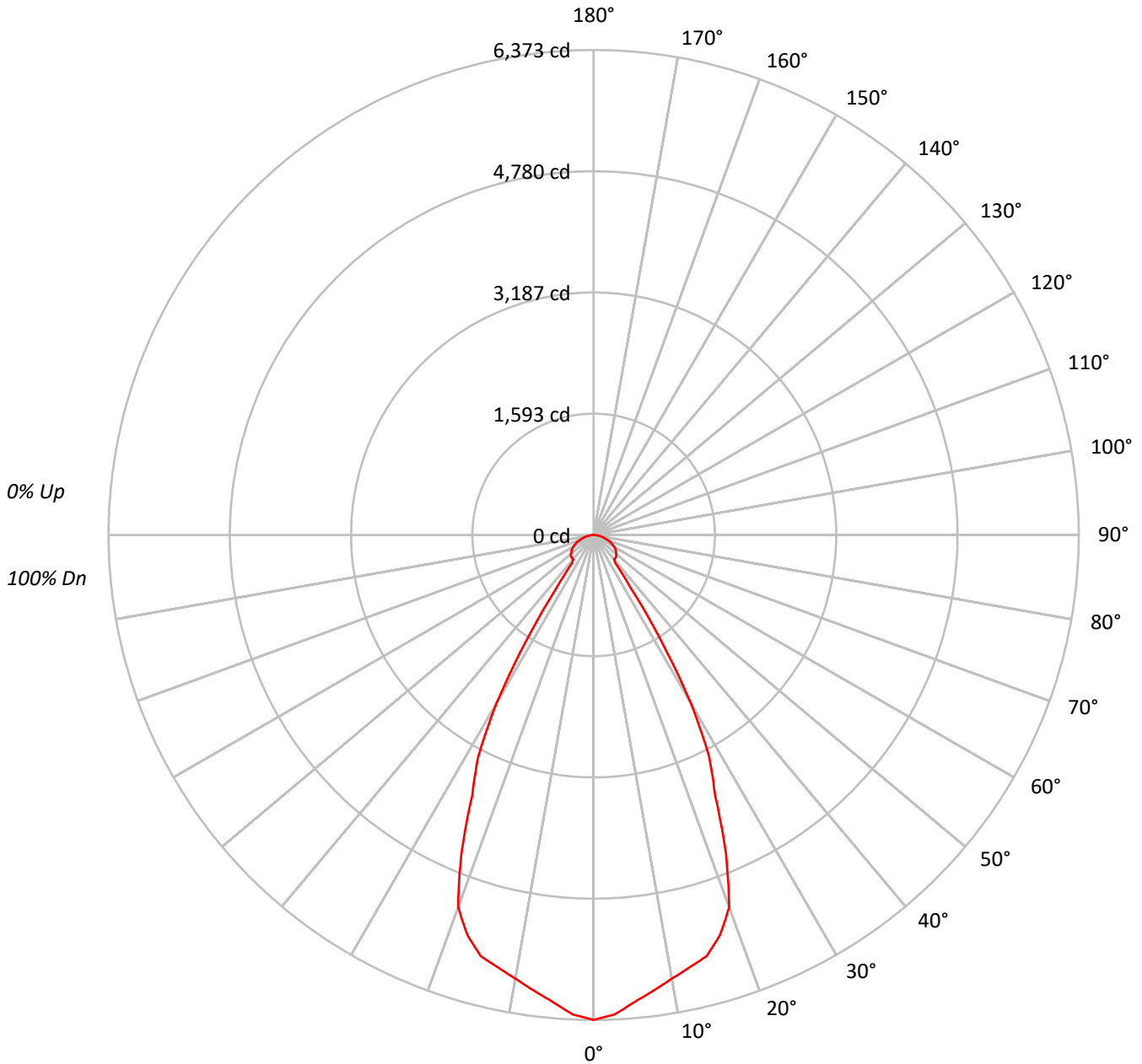
Lumens per Lamp: N/A
Luminaire Lumens: 5668.7 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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									
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	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°	696352
5°	675661
10°	656824
15°	648206
20°	605293
25°	454725
30°	321452
35°	113869
40°	59876
45°	63770
50°	66037
55°	67281
60°	67698
65°	66262
70°	62550
75°	57919
80°	51406
85°	41746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 67716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.1	10.3
10°-20°	1593.8	28.1
20°-30°	1755.4	31.0
30°-40°	670.7	11.8
40°-50°	316.7	5.6
50°-60°	314.8	5.6
60°-70°	252.0	4.4
70°-80°	144.9	2.6
80°-90°	39.4	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°	3930.2	69.3
0°-40°	4600.9	81.2
0°-60°	5232.4	92.3
0°-90°	5668.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5668.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6373	
5°	6160	581
15°	5730	1594
25°	3772	1755
35°	854	671
45°	413	317
55°	353	315
65°	256	252
75°	137	145
85°	33	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6373.3
2.5°	6306.7
5°	6160.4
7.5°	6038.3
10°	5920.2
12.5°	5820.3
15°	5730.5
17.5°	5513.6
20°	5205.8
22.5°	4541.8
25°	3771.9
27.5°	3283.5
30°	2547.9
32.5°	1645.8
35°	853.7
37.5°	461.1
40°	419.8
42.5°	416.7
45°	412.7
47.5°	403.6
50°	388.5
52.5°	371.3
55°	353.2
57.5°	333.0
60°	309.8
62.5°	283.5
65°	256.3
67.5°	226.0
70°	195.8
72.5°	165.5
75°	137.2
77.5°	108.0
80°	81.7
82.5°	57.5
85°	33.3
87.5°	13.1
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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