

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P749383

Luminaire Tested: LD4D50D010-EU4DR4540509040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR4540509040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

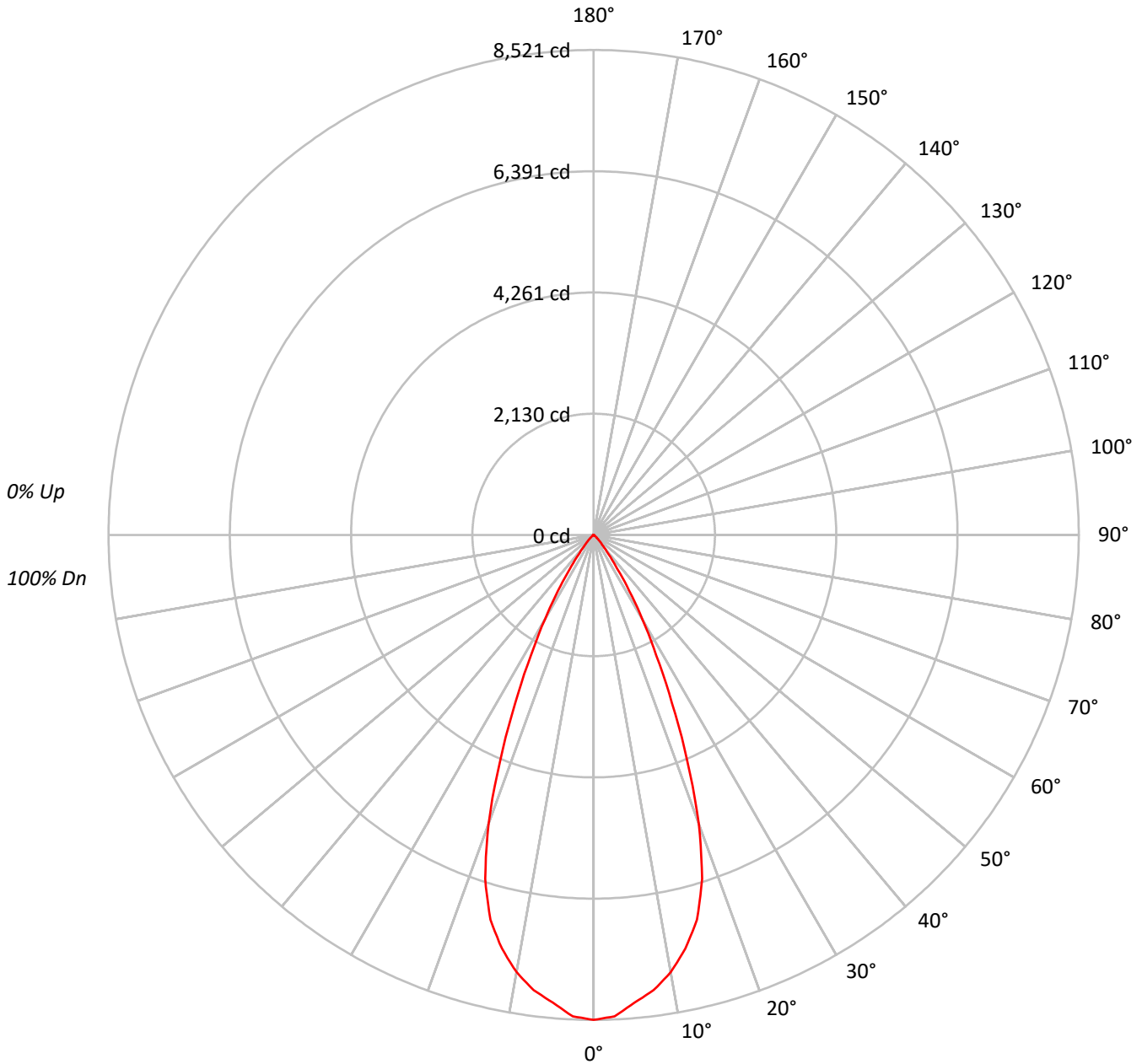
Lumens per Lamp: N/A
Luminaire Lumens: 4820.8 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95					95														
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90					90														
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85					85														
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81					81														
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77					77														
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73					73														
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69					69														
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66					66														
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63					63														
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60					60														

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	930989
5°	904482
10°	865348
15°	791975
20°	628315
25°	392265
30°	216206
35°	97076
40°	38239
45°	18017
50°	8550
55°	4477
60°	2207
65°	517
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18017 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.9	16.1
10°-20°	1907.0	39.6
20°-30°	1510.2	31.3
30°-40°	502.9	10.4
40°-50°	99.8	2.1
50°-60°	22.7	0.5
60°-70°	3.3	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	4192.0	87.0
0°-40°	4694.9	97.4
0°-60°	4817.5	99.9
0°-90°	4820.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4820.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8521	
5°	8247	775
15°	7002	1907
25°	3254	1510
35°	728	503
45°	117	100
55°	24	23
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8520.8
2.5°	8465.2
5°	8246.7
7.5°	8066.5
10°	7799.7
12.5°	7444.5
15°	7001.5
17.5°	6335.3
20°	5403.8
22.5°	4293.9
25°	3253.8
27.5°	2382.5
30°	1713.7
32.5°	1165.5
35°	727.8
37.5°	431.6
40°	268.1
42.5°	176.3
45°	116.6
47.5°	75.1
50°	50.3
52.5°	33.5
55°	23.5
57.5°	15.4
60°	10.1
62.5°	5.4
65°	2.0
67.5°	0.7
70°	0.7
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)