

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: P755870

Luminaire Tested: LD4D90BD010-EU4DR6070959050-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755870
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: LD4D90BD010-EU4DR6070959050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

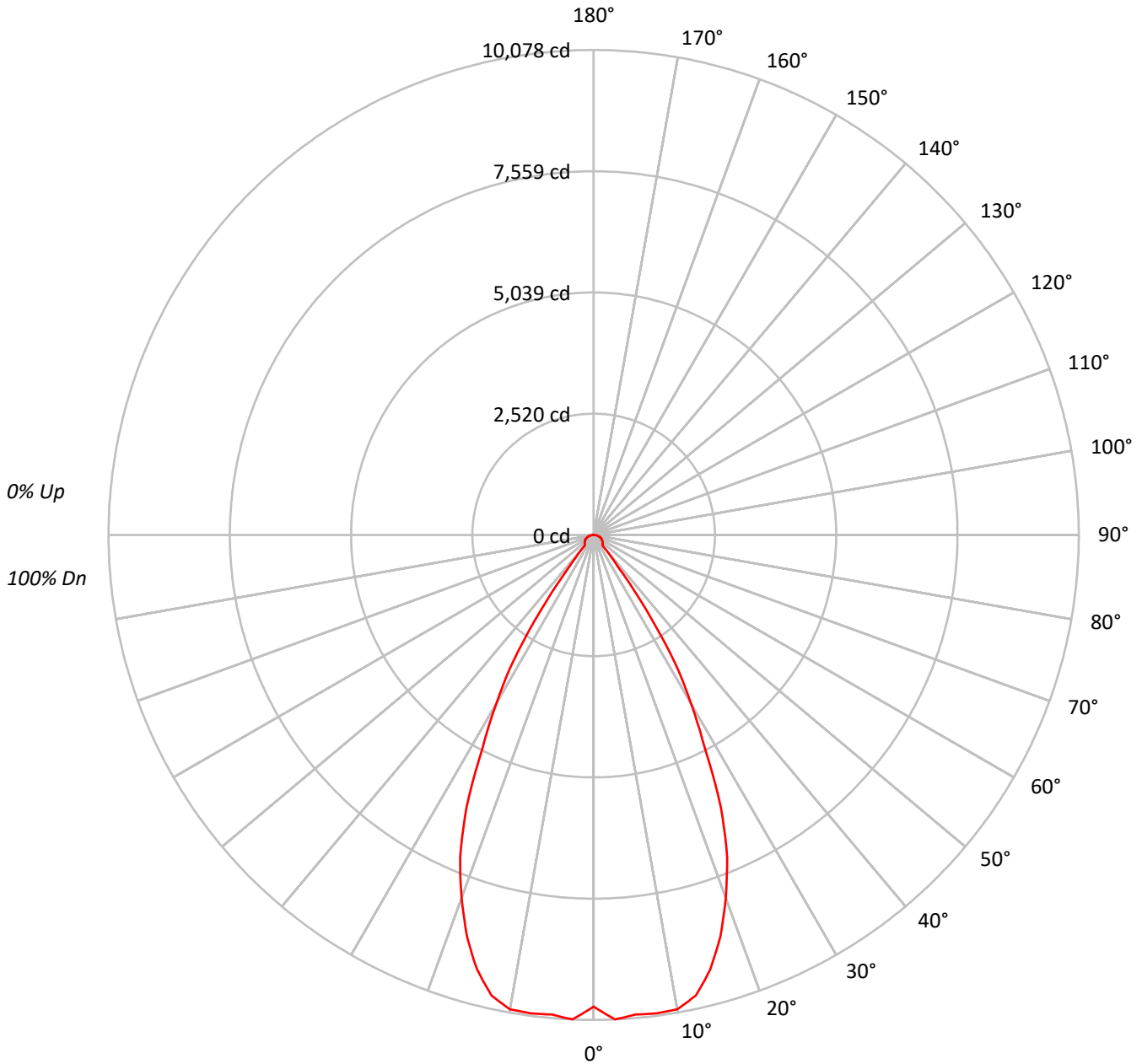
Lumens per Lamp: N/A
Luminaire Lumens: 8254.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	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°	1071061
5°	1097395
10°	1110650
15°	1058044
20°	932869
25°	754535
30°	510382
35°	255748
40°	41491
45°	40607
50°	41424
55°	42041
60°	43202
65°	44183
70°	45235
75°	45761
80°	44170
85°	36731

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 45761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.3	11.6
10°-20°	2587.3	31.3
20°-30°	2783.7	33.7
30°-40°	1210.0	14.7
40°-50°	203.2	2.5
50°-60°	197.6	2.4
60°-70°	169.0	2.0
70°-80°	113.1	1.4
80°-90°	33.8	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°	6327.3	76.7
0°-40°	7537.3	91.3
0°-60°	7938.2	96.2
0°-90°	8254.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8254.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9803	
5°	10006	956
15°	9354	2587
25°	6259	2784
35°	1917	1210
45°	263	203
55°	221	198
65°	171	169
75°	108	113
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9802.8
2.5°	10078.3
5°	10005.6
7.5°	10028.6
10°	10010.7
12.5°	9804.1
15°	9353.7
17.5°	8749.0
20°	8023.1
22.5°	7246.2
25°	6258.8
27.5°	5006.0
30°	4045.4
32.5°	3117.9
35°	1917.4
37.5°	820.3
40°	290.9
42.5°	267.9
45°	262.8
47.5°	253.9
50°	243.7
52.5°	232.2
55°	220.7
57.5°	209.2
60°	197.7
62.5°	185.0
65°	170.9
67.5°	156.9
70°	141.6
72.5°	125.0
75°	108.4
77.5°	89.3
80°	70.2
82.5°	49.8
85°	29.3
87.5°	10.2
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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