

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: P755341

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR3070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6559.2 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

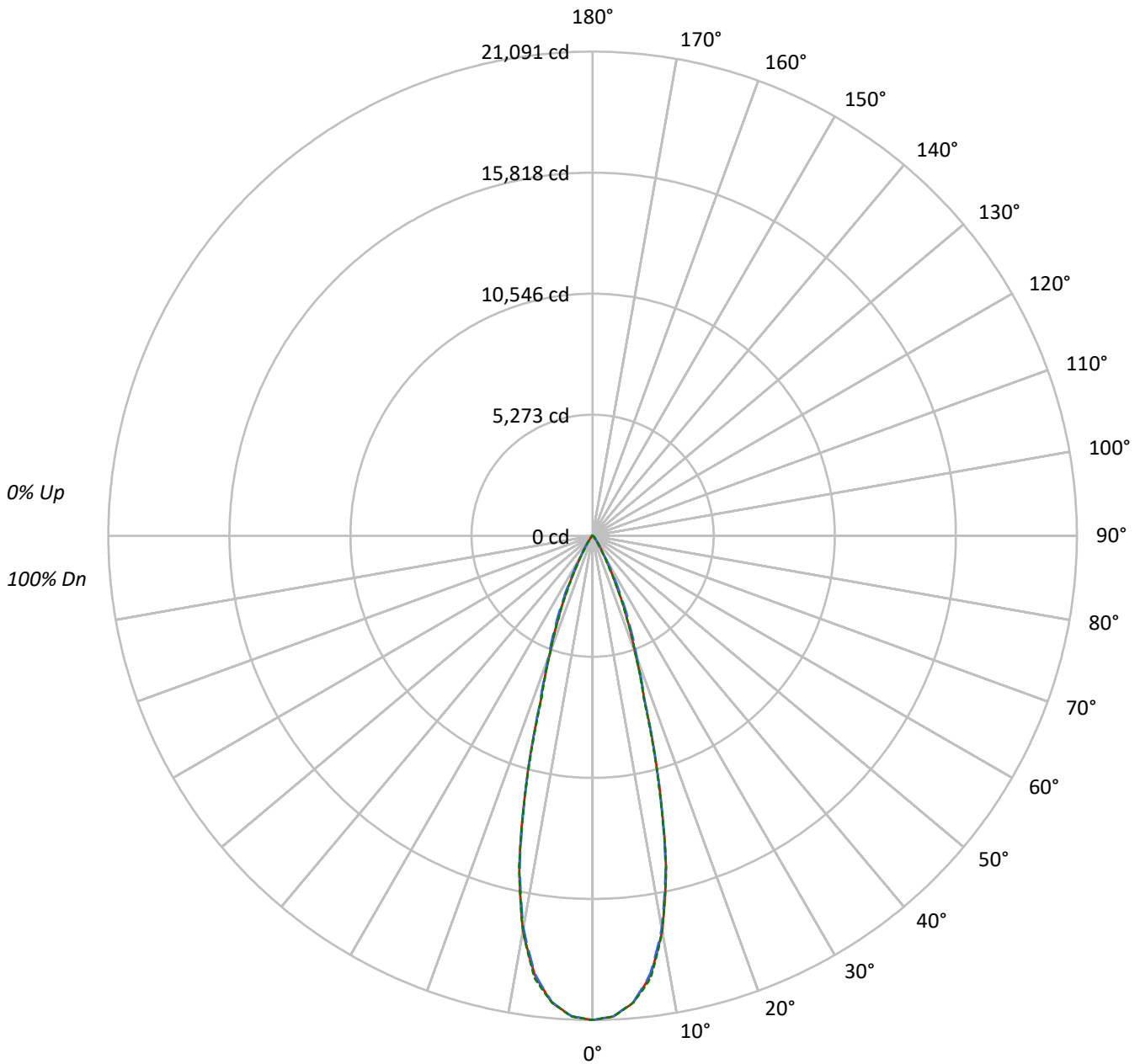
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1614369	1614369	1614369
5°	1568026	1566197	1568103
10°	1358153	1348569	1357826
15°	886125	881363	876933
20°	440627	457162	440040
25°	221960	250295	217407
30°	88871	96834	77425
35°	41217	39479	33088
40°	17796	19764	16767
45°	12557	15577	12665
50°	4311	11348	4561
55°	2482	4697	2629
60°	1745	2067	1745
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15577 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1854.6	28.3
10°-20°	2986.9	45.5
20°-30°	1290.7	19.7
30°-40°	294.2	4.5
40°-50°	101.0	1.5
50°-60°	24.7	0.4
60°-70°	6.4	0.1
70°-80°	0.7	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°	6132.3	93.5
0°-40°	6426.4	98.0
0°-60°	6552.1	99.9
0°-90°	6559.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6559.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21091	21091	21091	21091	21091	
5°	20408	20388	20384	20426	20408	1856
15°	11182	11048	11122	11086	11066	2994
25°	2628	2728	2964	2658	2574	1258
35°	441	450	422	419	354	299
45°	116	144	144	144	117	82
55°	19	20	35	21	20	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21090.9	21090.9	21090.9	21090.9	21090.9
2.5°	20951.1	20936.7	20944.9	20955.3	20959.4
5°	20407.5	20387.8	20383.7	20426.2	20408.5
7.5°	19310.9	19283.0	19240.5	19336.8	19426.9
10°	17474.0	17442.9	17350.7	17396.3	17469.8
12.5°	14762.0	14661.6	14659.5	14804.5	14784.8
15°	11182.3	11047.7	11122.2	11086.0	11066.3
17.5°	7519.8	7468.0	7567.4	7537.4	7407.9
20°	5409.4	5422.9	5612.4	5517.1	5402.2
22.5°	3947.3	3996.0	4220.7	3975.3	3885.2
25°	2628.1	2727.5	2963.6	2658.1	2574.2
27.5°	1616.4	1662.0	1901.2	1595.7	1550.1
30°	1005.5	982.7	1095.6	940.2	876.0
32.5°	659.6	630.6	666.9	598.5	546.7
35°	441.1	450.4	422.5	419.4	354.1
37.5°	275.4	316.9	279.6	298.2	227.8
40°	178.1	229.9	197.8	218.5	167.8
42.5°	146.0	177.1	162.6	172.9	149.1
45°	116.0	143.9	143.9	143.9	117.0
47.5°	64.2	96.3	123.2	98.4	68.3
50°	36.2	48.7	95.3	50.7	38.3
52.5°	24.9	28.0	65.2	29.0	25.9
55°	18.6	19.7	35.2	20.7	19.7
57.5°	14.5	15.5	18.6	15.5	14.5
60°	11.4	11.4	13.5	12.4	11.4
62.5°	8.3	8.3	9.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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