

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: P755382

Luminaire Tested: LD4D90BD010-EU4DR3070959040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755382
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-EU4DR3070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9322.2 lumens
Efficiency: N/A
Efficacy: 94.3 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

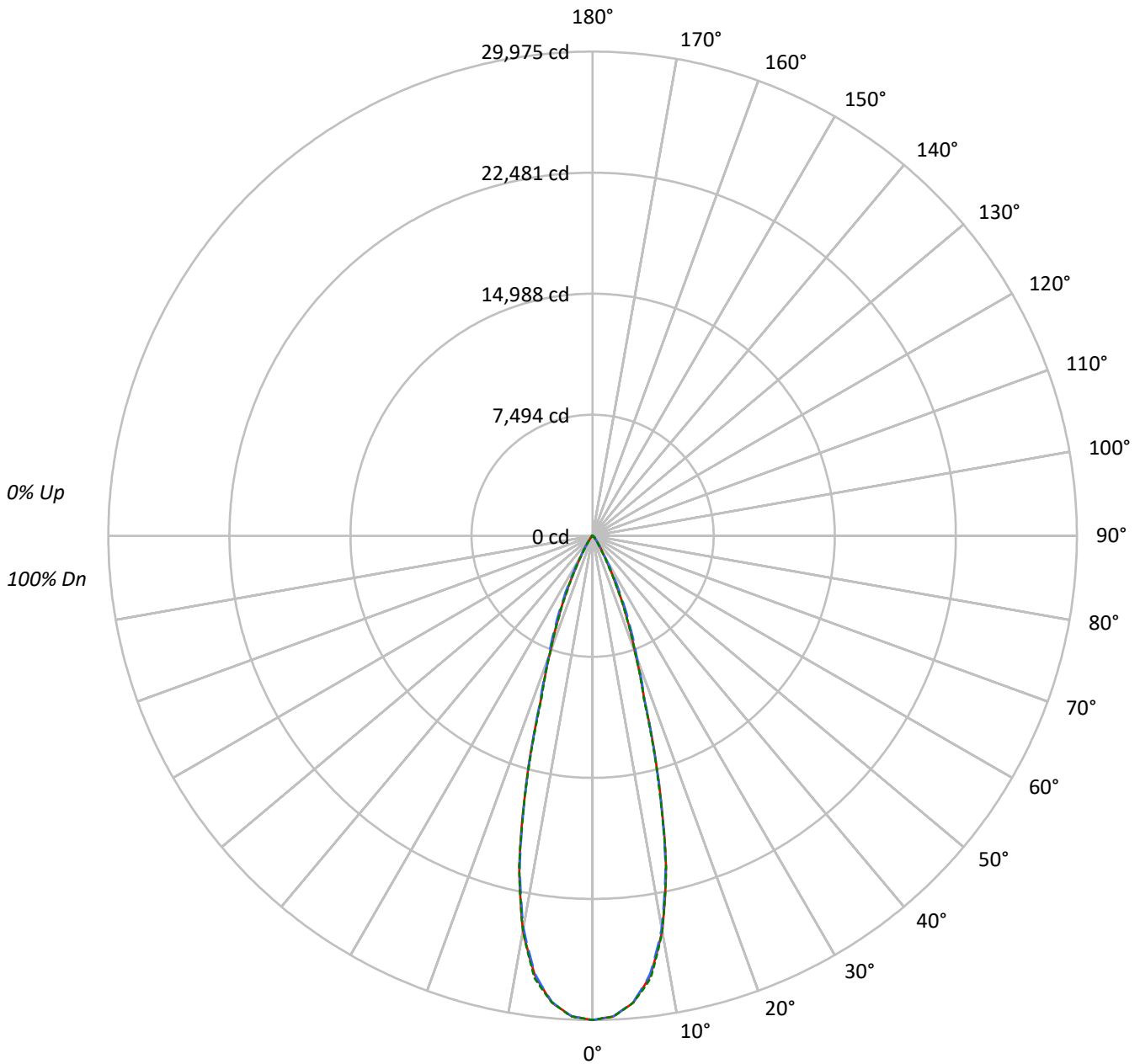


Downlight

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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°	2294411	2294411	2294411
5°	2228545	2225940	2228660
10°	1930257	1916648	1929799
15°	1259394	1252635	1246335
20°	626240	649732	625401
25°	315453	355730	308992
30°	126302	137615	110039
35°	58579	56103	47029
40°	25290	28088	23821
45°	17839	22148	18002
50°	6133	16123	6490
55°	3536	6672	3737
60°	2480	2924	2480
65°	1594	1594	1594
70°	985	649	985
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 22148 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2635.9	28.3
10°-20°	4245.1	45.5
20°-30°	1834.4	19.7
30°-40°	418.1	4.5
40°-50°	143.6	1.5
50°-60°	35.1	0.4
60°-70°	9.1	0.1
70°-80°	1.0	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°	8715.4	93.5
0°-40°	9133.5	98.0
0°-60°	9312.1	99.9
0°-90°	9322.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9322.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29975	29975	29975	29975	29975	
5°	29004	28976	28970	29030	29006	2638
15°	15893	15701	15807	15756	15728	4255
25°	3735	3876	4212	3778	3659	1788
35°	627	640	600	596	503	425
45°	165	205	205	205	166	117
55°	26	28	50	29	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	29975.3	29975.3	29975.3	29975.3	29975.3
2.5°	29776.6	29756.0	29767.8	29782.5	29788.4
5°	29004.0	28976.0	28970.1	29030.5	29005.5
7.5°	27445.5	27405.7	27345.4	27482.3	27610.3
10°	24834.7	24790.6	24659.6	24724.3	24828.8
12.5°	20980.4	20837.6	20834.7	21040.7	21012.7
15°	15892.7	15701.4	15807.4	15755.9	15727.9
17.5°	10687.4	10613.8	10755.1	10712.4	10528.4
20°	7688.1	7707.2	7976.5	7841.1	7677.8
22.5°	5610.1	5679.2	5998.6	5649.8	5521.8
25°	3735.1	3876.4	4212.0	3777.8	3658.6
27.5°	2297.3	2362.1	2702.0	2267.9	2203.1
30°	1429.0	1396.6	1557.0	1336.3	1245.0
32.5°	937.5	896.3	947.8	850.6	777.1
35°	626.9	640.2	600.4	596.0	503.3
37.5°	391.5	450.3	397.4	423.8	323.8
40°	253.1	326.7	281.1	310.5	238.4
42.5°	207.5	251.7	231.1	245.8	211.9
45°	164.8	204.6	204.6	204.6	166.3
47.5°	91.2	136.9	175.1	139.8	97.1
50°	51.5	69.2	135.4	72.1	54.5
52.5°	35.3	39.7	92.7	41.2	36.8
55°	26.5	28.0	50.0	29.4	28.0
57.5°	20.6	22.1	26.5	22.1	20.6
60°	16.2	16.2	19.1	17.7	16.2
62.5°	11.8	11.8	13.2	11.8	11.8
65°	8.8	8.8	8.8	8.8	8.8
67.5°	4.4	5.9	5.9	5.9	5.9
70°	4.4	2.9	2.9	2.9	4.4
72.5°	2.9	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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