

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: P755343

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755343
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-EU4DR3070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8554.5 lumens
Efficiency: N/A
Efficacy: 86.5 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

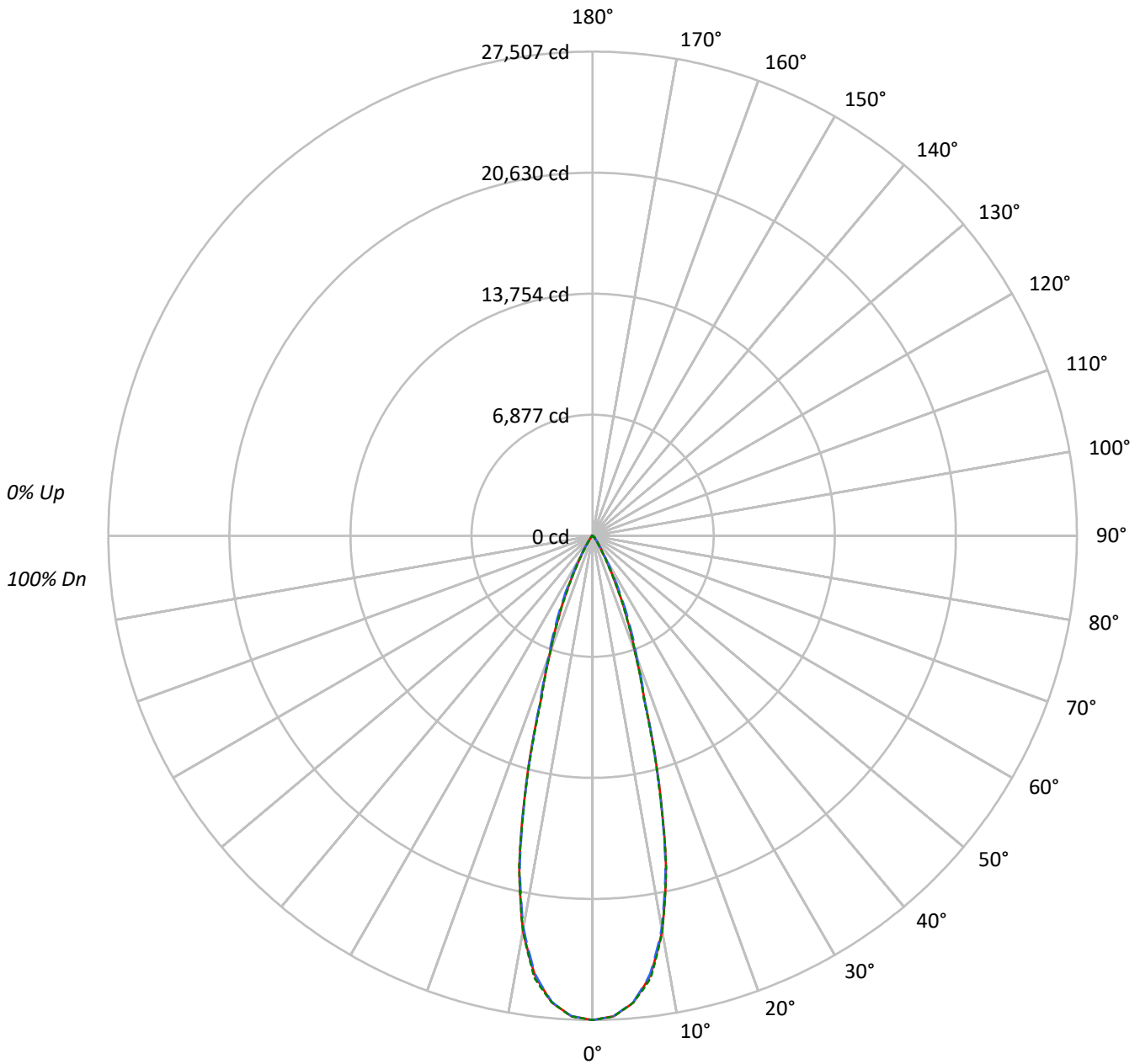
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2105456	2105456	2105456
5°	2045015	2042633	2045123
10°	1771296	1758805	1770876
15°	1155680	1149475	1143698
20°	574671	596224	573897
25°	289474	326432	283545
30°	115899	126284	100980
35°	53757	51487	43161
40°	23211	25769	21863
45°	16378	20318	16519
50°	5633	14790	5954
55°	3243	6125	3430
60°	2281	2694	2281
65°	1467	1467	1467
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2418.8	28.3
10°-20°	3895.5	45.5
20°-30°	1683.3	19.7
30°-40°	383.7	4.5
40°-50°	131.7	1.5
50°-60°	32.2	0.4
60°-70°	8.3	0.1
70°-80°	0.9	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°	7997.7	93.5
0°-40°	8381.3	98.0
0°-60°	8545.2	99.9
0°-90°	8554.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8554.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27507	27507	27507	27507	27507	
5°	26615	26590	26584	26640	26617	2421
15°	14584	14408	14506	14458	14433	3905
25°	3428	3557	3865	3467	3357	1641
35°	575	588	551	547	462	390
45°	151	188	188	188	153	107
55°	24	26	46	27	26	24
65°	8	8	8	8	8	8
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°	27506.7	27506.7	27506.7	27506.7	27506.7
2.5°	27324.4	27305.5	27316.3	27329.8	27335.2
5°	26615.4	26589.8	26584.4	26639.7	26616.8
7.5°	25185.3	25148.8	25093.4	25219.0	25336.5
10°	22789.5	22749.0	22628.8	22688.2	22784.1
12.5°	19252.6	19121.6	19118.9	19307.9	19282.3
15°	14583.9	14408.4	14505.6	14458.3	14432.7
17.5°	9807.2	9739.7	9869.4	9830.2	9661.4
20°	7055.0	7072.5	7319.6	7195.4	7045.5
22.5°	5148.1	5211.5	5504.6	5184.5	5067.0
25°	3427.5	3557.2	3865.1	3466.7	3357.3
27.5°	2108.1	2167.5	2479.5	2081.1	2021.7
30°	1311.3	1281.6	1428.8	1226.2	1142.5
32.5°	860.3	822.4	869.7	780.6	713.1
35°	575.3	587.5	551.0	546.9	461.9
37.5°	359.2	413.2	364.6	388.9	297.1
40°	232.3	299.8	257.9	285.0	218.8
42.5°	190.4	230.9	212.0	225.5	194.5
45°	151.3	187.7	187.7	187.7	152.6
47.5°	83.7	125.6	160.7	128.3	89.1
50°	47.3	63.5	124.2	66.2	50.0
52.5°	32.4	36.5	85.1	37.8	33.8
55°	24.3	25.7	45.9	27.0	25.7
57.5°	18.9	20.3	24.3	20.3	18.9
60°	14.9	14.9	17.6	16.2	14.9
62.5°	10.8	10.8	12.2	10.8	10.8
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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

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

Scaled Data Report



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Scaled Data Report





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

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