

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: P755396

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755396
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-EU4DR3070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7976.5 lumens
Efficiency: N/A
Efficacy: 80.7 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

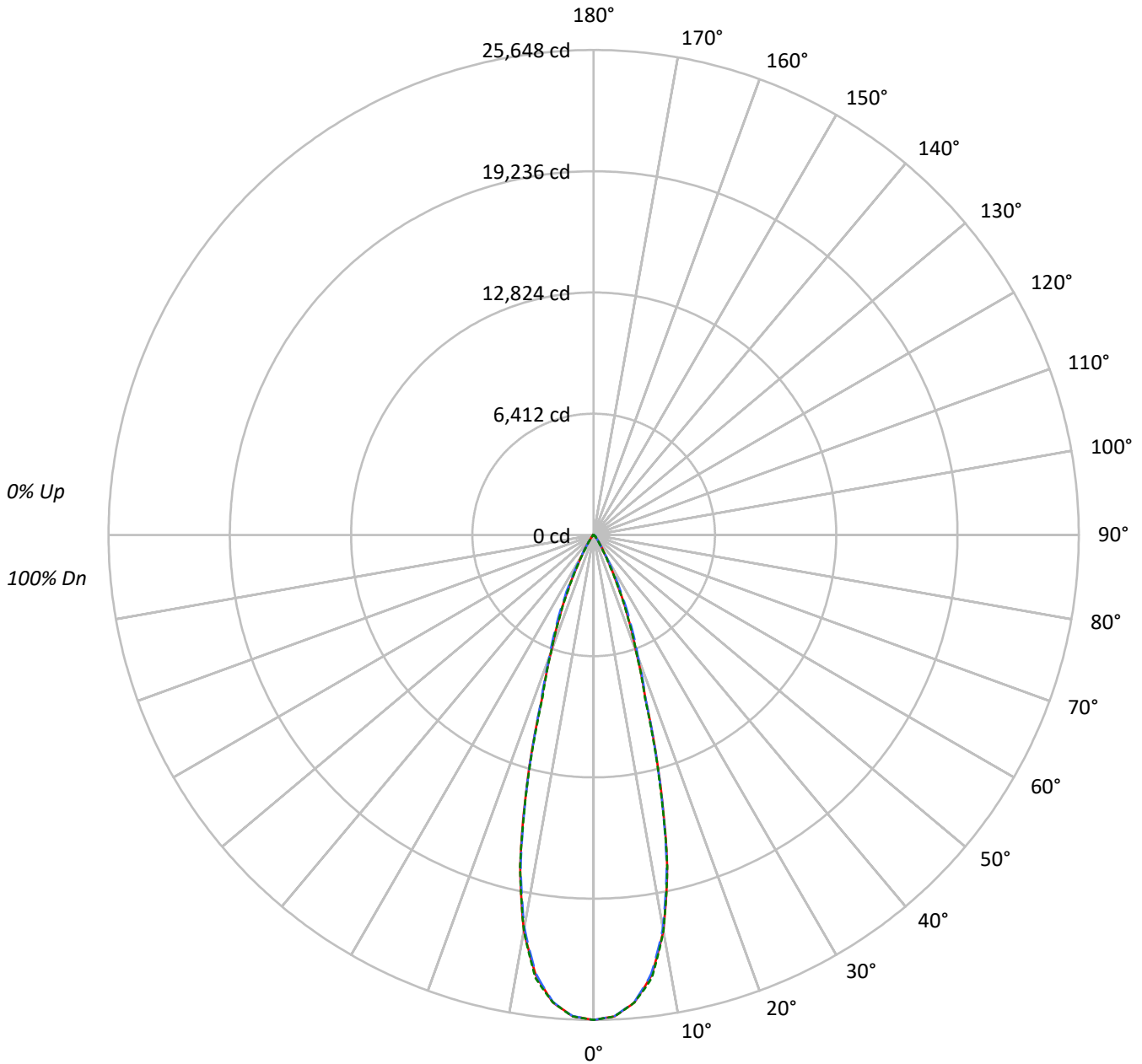
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755396
CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755396

CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1MW

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°	1963200	1963200	1963200
5°	1906841	1904621	1906941
10°	1651616	1639973	1651227
15°	1077601	1071809	1066420
20°	535841	555944	535124
25°	269922	304372	264390
30°	108068	117755	94156
35°	50122	48011	40246
40°	21643	24031	20384
45°	15263	18944	15404
50°	5251	13801	5549
55°	3029	5712	3189
60°	2128	2511	2128
65°	1376	1376	1376
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18944 cd/sqm



TEST NUMBER: P755396

CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2255.4	28.3
10°-20°	3632.3	45.5
20°-30°	1569.6	19.7
30°-40°	357.8	4.5
40°-50°	122.8	1.5
50°-60°	30.0	0.4
60°-70°	7.8	0.1
70°-80°	0.8	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°	7457.3	93.5
0°-40°	7815.0	98.0
0°-60°	7967.9	99.9
0°-90°	7976.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7976.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25648	25648	25648	25648	25648	
5°	24817	24793	24788	24840	24818	2257
15°	13599	13435	13526	13481	13458	3641
25°	3196	3317	3604	3232	3130	1530
35°	536	548	514	510	431	364
45°	141	175	175	175	142	100
55°	23	24	43	25	24	22
65°	8	8	8	8	8	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P755396

CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25648.2	25648.2	25648.2	25648.2	25648.2
2.5°	25478.2	25460.6	25470.7	25483.3	25488.3
5°	24817.1	24793.2	24788.2	24839.8	24818.4
7.5°	23483.6	23449.6	23398.0	23515.1	23624.6
10°	21249.7	21211.9	21099.9	21155.3	21244.7
12.5°	17951.8	17829.6	17827.1	18003.4	17979.5
15°	13598.6	13434.9	13525.5	13481.4	13457.5
17.5°	9144.6	9081.7	9202.5	9166.0	9008.6
20°	6578.3	6594.6	6825.1	6709.2	6569.5
22.5°	4800.2	4859.4	5132.7	4834.2	4724.7
25°	3196.0	3316.8	3603.9	3232.5	3130.5
27.5°	1965.7	2021.1	2312.0	1940.5	1885.1
30°	1222.7	1195.0	1332.3	1143.4	1065.3
32.5°	802.1	766.9	811.0	727.8	664.9
35°	536.4	547.8	513.8	510.0	430.7
37.5°	335.0	385.3	340.0	362.7	277.0
40°	216.6	279.6	240.5	265.7	204.0
42.5°	177.6	215.3	197.7	210.3	181.3
45°	141.0	175.0	175.0	175.0	142.3
47.5°	78.1	117.1	149.8	119.6	83.1
50°	44.1	59.2	115.9	61.7	46.6
52.5°	30.2	34.0	79.3	35.3	31.5
55°	22.7	23.9	42.8	25.2	23.9
57.5°	17.6	18.9	22.7	18.9	17.6
60°	13.9	13.9	16.4	15.1	13.9
62.5°	10.1	10.1	11.3	10.1	10.1
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.0	5.0	5.0	5.0
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)