

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: P755342

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755342
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-EU4DR3070959027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 8147.1 lumens
Efficiency: N/A
Efficacy: 82.4 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

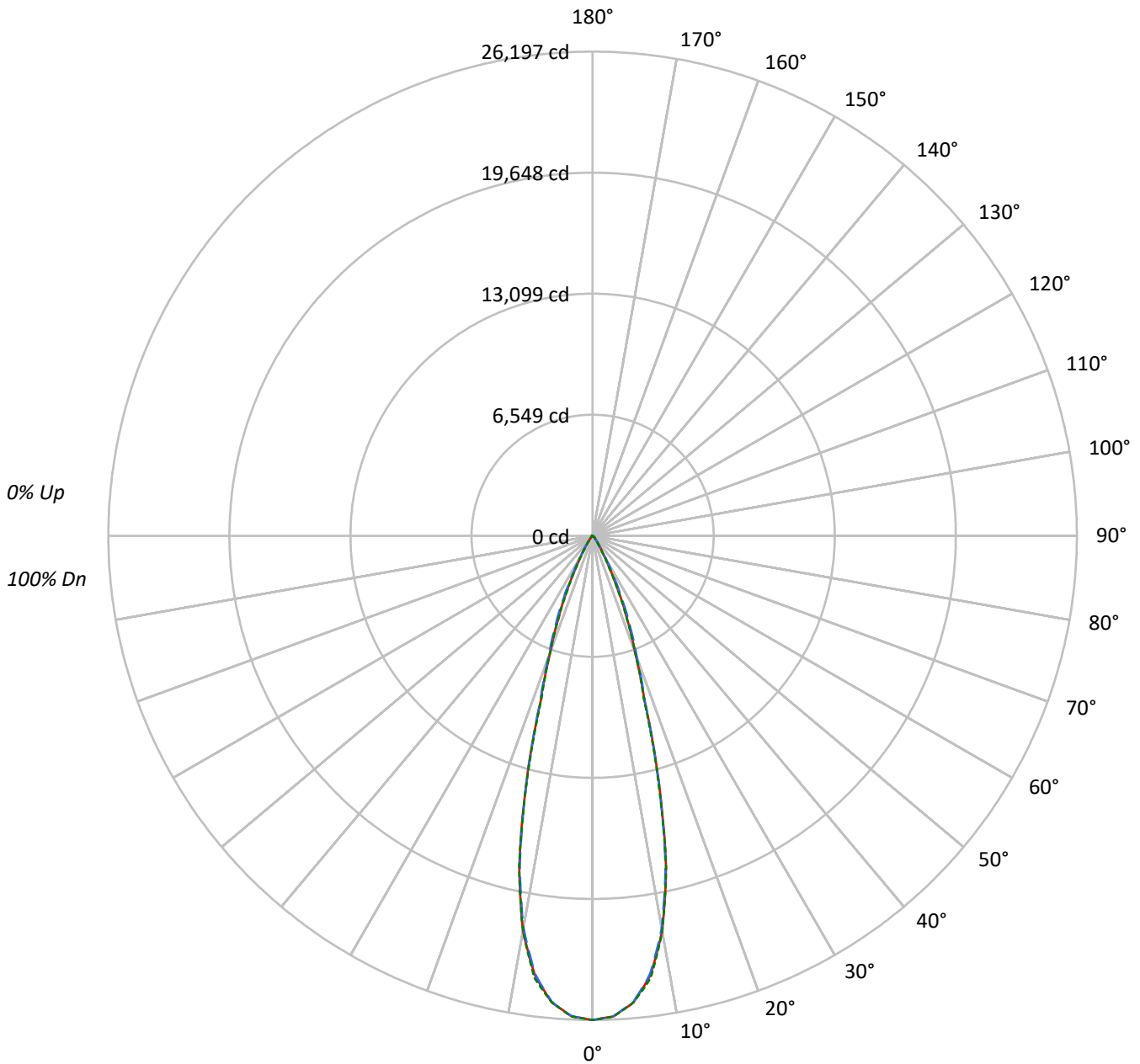
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2005200	2005200	2005200
5°	1947633	1945359	1947733
10°	1686949	1675050	1686545
15°	1100653	1094742	1089234
20°	547301	567836	546568
25°	275691	310884	270041
30°	110384	120274	96171
35°	51197	49038	41105
40°	22102	24550	20823
45°	15599	19355	15729
50°	5359	14087	5668
55°	3096	5832	3256
60°	2159	2557	2159
65°	1395	1395	1395
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2303.6	28.3
10°-20°	3710.0	45.5
20°-30°	1603.2	19.7
30°-40°	365.4	4.5
40°-50°	125.5	1.5
50°-60°	30.6	0.4
60°-70°	7.9	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°	7616.8	93.5
0°-40°	7982.2	98.0
0°-60°	8138.3	99.9
0°-90°	8147.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8147.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26197	26197	26197	26197	26197	
5°	25348	25324	25318	25371	25349	2306
15°	13890	13722	13815	13770	13745	3719
25°	3264	3388	3681	3302	3197	1563
35°	548	560	525	521	440	372
45°	144	179	179	179	145	102
55°	23	24	44	26	24	23
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°	26196.9	26196.9	26196.9	26196.9	26196.9
2.5°	26023.3	26005.3	26015.5	26028.4	26033.6
5°	25348.0	25323.6	25318.4	25371.2	25349.3
7.5°	23986.0	23951.2	23898.5	24018.1	24130.0
10°	21704.3	21665.7	21551.2	21607.8	21699.1
12.5°	18335.8	18211.0	18208.4	18388.5	18364.1
15°	13889.5	13722.2	13814.9	13769.8	13745.4
17.5°	9340.2	9275.9	9399.4	9362.1	9201.3
20°	6719.0	6735.7	6971.1	6852.8	6710.0
22.5°	4902.9	4963.4	5242.5	4937.6	4825.7
25°	3264.3	3387.8	3681.0	3301.6	3197.4
27.5°	2007.7	2064.3	2361.4	1982.0	1925.4
30°	1248.9	1220.6	1360.8	1167.9	1088.1
32.5°	819.3	783.3	828.3	743.4	679.1
35°	547.9	559.5	524.8	520.9	439.9
37.5°	342.1	393.6	347.3	370.4	283.0
40°	221.2	285.5	245.7	271.4	208.4
42.5°	181.4	219.9	201.9	214.8	185.2
45°	144.1	178.8	178.8	178.8	145.3
47.5°	79.7	119.6	153.1	122.2	84.9
50°	45.0	60.5	118.3	63.0	47.6
52.5°	30.9	34.7	81.0	36.0	32.2
55°	23.2	24.4	43.7	25.7	24.4
57.5°	18.0	19.3	23.2	19.3	18.0
60°	14.1	14.1	16.7	15.4	14.1
62.5°	10.3	10.3	11.6	10.3	10.3
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.9	5.1	5.1	5.1	5.1
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	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



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Scaled Data Report





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

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