

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: P742117

Luminaire Tested: LD4D10D010-EU4DR300210IC9027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742117
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: LD4D10D010-EU4DR300210IC9027-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 932.8 lumens
Efficiency: N/A
Efficacy: 79.7 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): 11.7
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

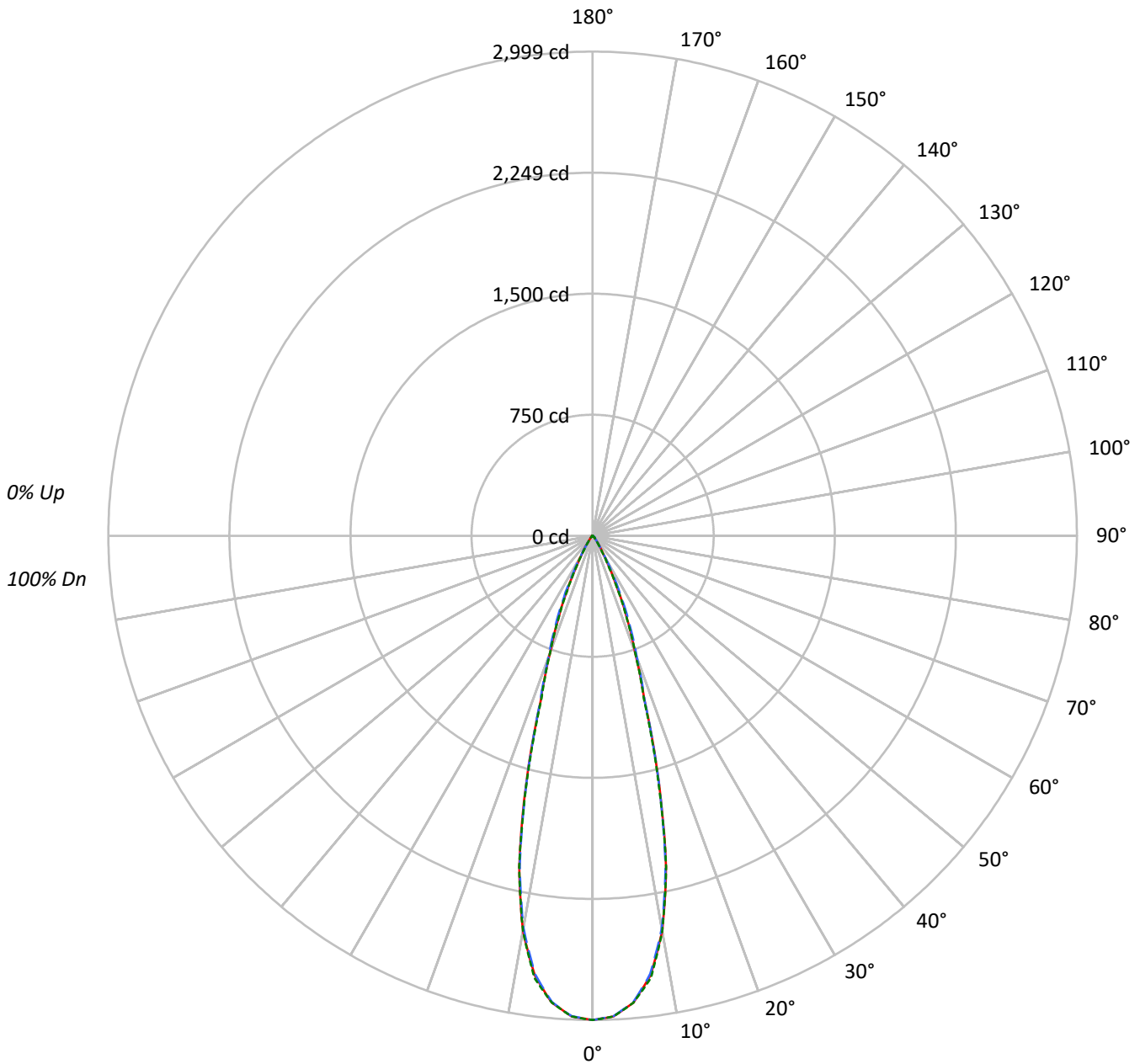


Downlight



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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°	229577	229577	229577
5°	222993	222724	223000
10°	193137	191784	193098
15°	126013	125340	124706
20°	62656	65010	62574
25°	31561	35598	30919
30°	12639	13770	11013
35°	5859	5616	4709
40°	2528	2808	2378
45°	1786	2219	1797
50°	619	1608	643
55°	347	667	374
60°	245	291	245
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2219 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	28.3
10°-20°	424.8	45.5
20°-30°	183.6	19.7
30°-40°	41.8	4.5
40°-50°	14.4	1.5
50°-60°	3.5	0.4
60°-70°	0.9	0.1
70°-80°	0.1	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°	872.1	93.5
0°-40°	913.9	98.0
0°-60°	931.8	99.9
0°-90°	932.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2999	2999	2999	2999	2999	
5°	2902	2899	2899	2905	2902	264
15°	1590	1571	1582	1576	1574	426
25°	374	388	422	378	366	179
35°	63	64	60	60	50	43
45°	16	20	20	20	17	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2999.3	2999.3	2999.3	2999.3	2999.3
2.5°	2979.5	2977.4	2978.6	2980.0	2980.6
5°	2902.2	2899.4	2898.7	2904.8	2902.3
7.5°	2746.2	2742.2	2736.2	2749.9	2762.7
10°	2484.9	2480.5	2467.5	2473.9	2484.4
12.5°	2099.3	2085.0	2084.7	2105.4	2102.6
15°	1590.2	1571.1	1581.7	1576.5	1573.7
17.5°	1069.4	1062.0	1076.2	1071.9	1053.5
20°	769.2	771.2	798.1	784.6	768.2
22.5°	561.3	568.3	600.2	565.3	552.5
25°	373.7	387.9	421.5	378.0	366.1
27.5°	229.9	236.3	270.4	226.9	220.5
30°	143.0	139.7	155.8	133.7	124.6
32.5°	93.8	89.7	94.8	85.1	77.7
35°	62.7	64.1	60.1	59.6	50.4
37.5°	39.2	45.0	39.8	42.4	32.4
40°	25.3	32.7	28.1	31.1	23.8
42.5°	20.7	25.2	23.1	24.6	21.2
45°	16.5	20.5	20.5	20.5	16.6
47.5°	9.1	13.7	17.5	14.0	9.7
50°	5.2	6.9	13.5	7.2	5.4
52.5°	3.6	4.0	9.3	4.1	3.7
55°	2.6	2.8	5.0	2.9	2.8
57.5°	2.1	2.2	2.6	2.2	2.1
60°	1.6	1.6	1.9	1.8	1.6
62.5°	1.2	1.2	1.3	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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