

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: P743107

Luminaire Tested: LD4D15D010-EU4DR300215IC9024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743107
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: LD4D15D010-EU4DR300215IC9024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1144.0 lumens
Efficiency: N/A
Efficacy: 72.4 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): 15.8
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



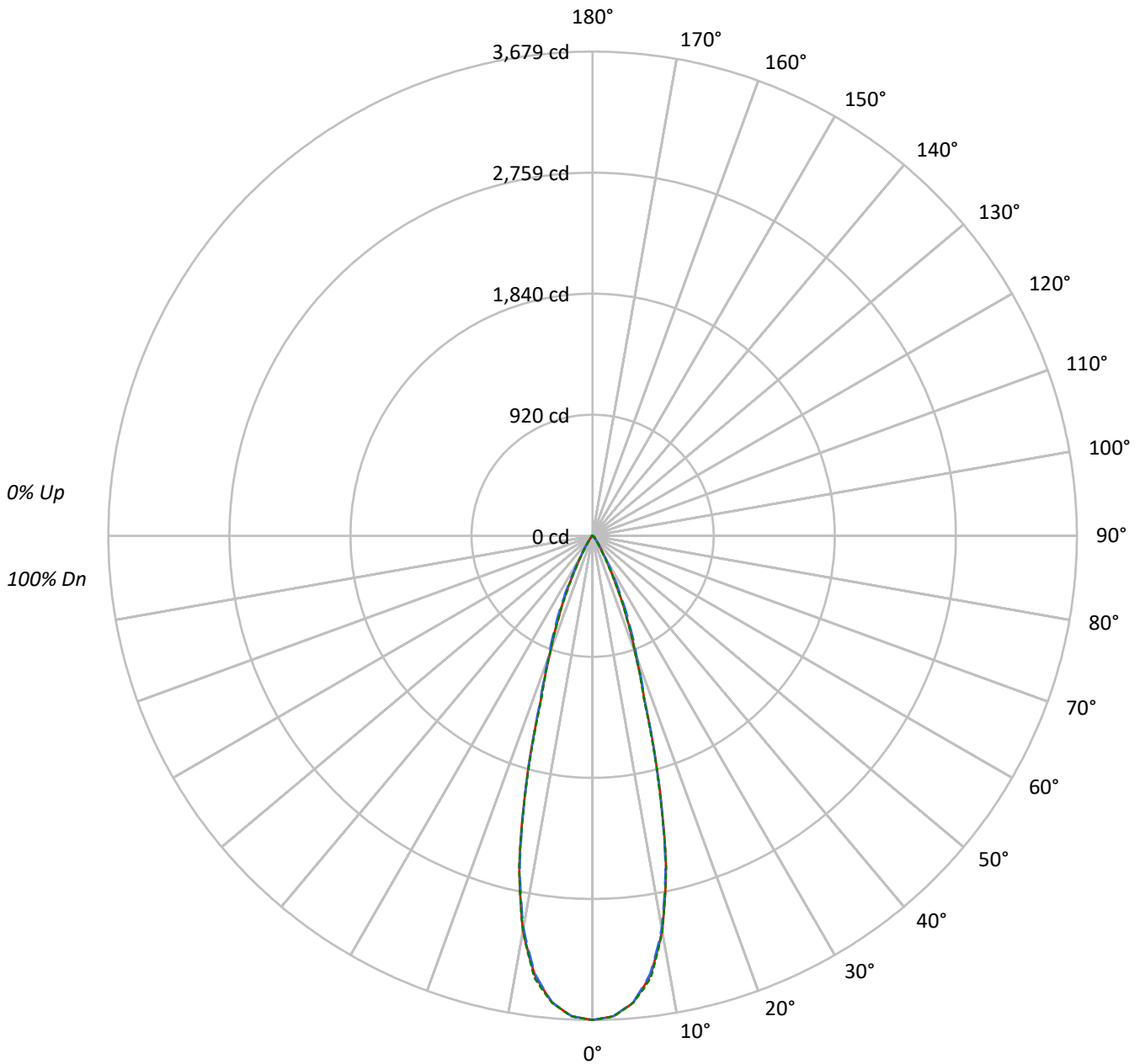
Downlight



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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	87	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°	281580	281580	281580
5°	273497	273174	273512
10°	236888	235217	236833
15°	154557	153732	152956
20°	76854	79737	76756
25°	38715	43655	37921
30°	15503	16890	13505
35°	7186	6887	5775
40°	3108	3447	2928
45°	2187	2717	2208
50°	750	1977	798
55°	440	814	454
60°	306	352	306
65°	199	199	199
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: 2717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	28.3
10°-20°	521.0	45.5
20°-30°	225.1	19.7
30°-40°	51.3	4.5
40°-50°	17.6	1.5
50°-60°	4.3	0.4
60°-70°	1.1	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°	1069.6	93.5
0°-40°	1120.9	98.0
0°-60°	1142.8	99.9
0°-90°	1144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3679	3679	3679	3679	3679	
5°	3560	3556	3555	3563	3560	324
15°	1950	1927	1940	1934	1930	522
25°	458	476	517	464	449	219
35°	77	79	74	73	62	52
45°	20	25	25	25	20	14
55°	3	3	6	4	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°	3678.7	3678.7	3678.7	3678.7	3678.7
2.5°	3654.3	3651.8	3653.2	3655.0	3655.8
5°	3559.5	3556.1	3555.3	3562.8	3559.7
7.5°	3368.3	3363.4	3355.9	3372.7	3388.5
10°	3047.8	3042.4	3026.3	3034.3	3047.1
12.5°	2574.8	2557.3	2556.9	2582.2	2578.8
15°	1950.4	1926.9	1940.0	1933.7	1930.2
17.5°	1311.6	1302.6	1319.9	1314.7	1292.1
20°	943.5	945.9	978.9	962.3	942.3
22.5°	688.5	697.0	736.2	693.4	677.7
25°	458.4	475.7	516.9	463.6	449.0
27.5°	281.9	289.9	331.6	278.3	270.4
30°	175.4	171.4	191.1	164.0	152.8
32.5°	115.0	110.0	116.3	104.4	95.3
35°	76.9	78.6	73.7	73.2	61.8
37.5°	48.1	55.3	48.8	52.0	39.8
40°	31.1	40.1	34.5	38.1	29.3
42.5°	25.4	30.9	28.4	30.1	26.0
45°	20.2	25.1	25.1	25.1	20.4
47.5°	11.2	16.8	21.5	17.1	11.9
50°	6.3	8.5	16.6	8.8	6.7
52.5°	4.4	4.9	11.4	5.0	4.5
55°	3.3	3.4	6.1	3.6	3.4
57.5°	2.5	2.7	3.3	2.7	2.5
60°	2.0	2.0	2.3	2.2	2.0
62.5°	1.4	1.4	1.6	1.4	1.4
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.5	0.7	0.7	0.7	0.7
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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