

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: P743171

Luminaire Tested: LD4D15D010-EU4DR300215IC9050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743171
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-EU4DR300215IC9050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1476.2 lumens
Efficiency: N/A
Efficacy: 93.4 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



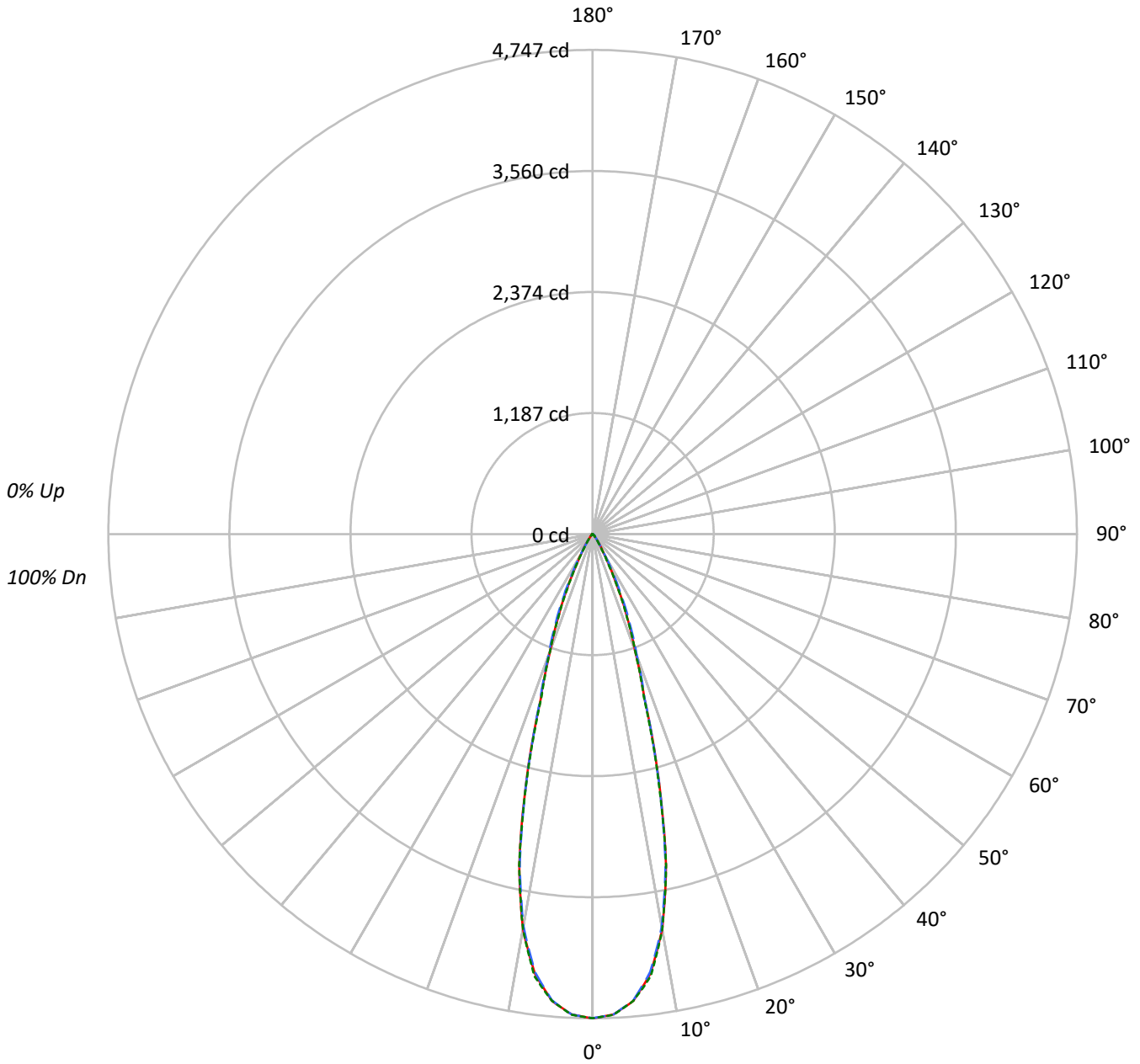
Downlight



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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	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°	363321	363321	363321
5°	352884	352476	352899
10°	305658	303497	305580
15°	199424	198355	197356
20°	99164	102887	99026
25°	49956	56332	48926
30°	20001	21787	17429
35°	9279	8886	7447
40°	4007	4446	3777
45°	2825	3507	2858
50°	965	2548	1024
55°	560	1054	587
60°	398	459	398
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3507 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	28.3
10°-20°	672.2	45.5
20°-30°	290.5	19.7
30°-40°	66.2	4.5
40°-50°	22.7	1.5
50°-60°	5.5	0.4
60°-70°	1.4	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°	1380.1	93.5
0°-40°	1446.3	98.0
0°-60°	1474.6	99.9
0°-90°	1476.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4747	4747	4747	4747	4747	
5°	4593	4588	4587	4597	4593	418
15°	2517	2486	2503	2495	2490	674
25°	592	614	667	598	579	283
35°	99	101	95	94	80	67
45°	26	32	32	32	26	18
55°	4	4	8	5	4	4
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°	4746.6	4746.6	4746.6	4746.6	4746.6
2.5°	4715.1	4711.8	4713.7	4716.0	4716.9
5°	4592.7	4588.3	4587.4	4597.0	4592.9
7.5°	4345.9	4339.6	4330.1	4351.8	4372.1
10°	3932.6	3925.6	3904.8	3915.1	3931.6
12.5°	3322.2	3299.6	3299.2	3331.8	3327.4
15°	2516.6	2486.3	2503.1	2494.9	2490.5
17.5°	1692.3	1680.7	1703.0	1696.3	1667.2
20°	1217.4	1220.4	1263.1	1241.6	1215.7
22.5°	888.4	899.3	949.9	894.7	874.4
25°	591.5	613.8	667.0	598.2	579.3
27.5°	363.8	374.0	427.9	359.1	348.9
30°	226.3	221.2	246.5	211.6	197.2
32.5°	148.5	141.9	150.1	134.7	123.1
35°	99.3	101.4	95.1	94.4	79.7
37.5°	62.0	71.3	62.9	67.1	51.3
40°	40.1	51.7	44.5	49.2	37.8
42.5°	32.8	39.9	36.6	38.9	33.6
45°	26.1	32.4	32.4	32.4	26.4
47.5°	14.4	21.7	27.7	22.1	15.4
50°	8.1	10.9	21.4	11.4	8.6
52.5°	5.6	6.3	14.7	6.5	5.8
55°	4.2	4.4	7.9	4.6	4.4
57.5°	3.3	3.5	4.2	3.5	3.3
60°	2.6	2.6	3.0	2.8	2.6
62.5°	1.9	1.9	2.1	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	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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