

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: P745799

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR1515309050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2709.9 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 29
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

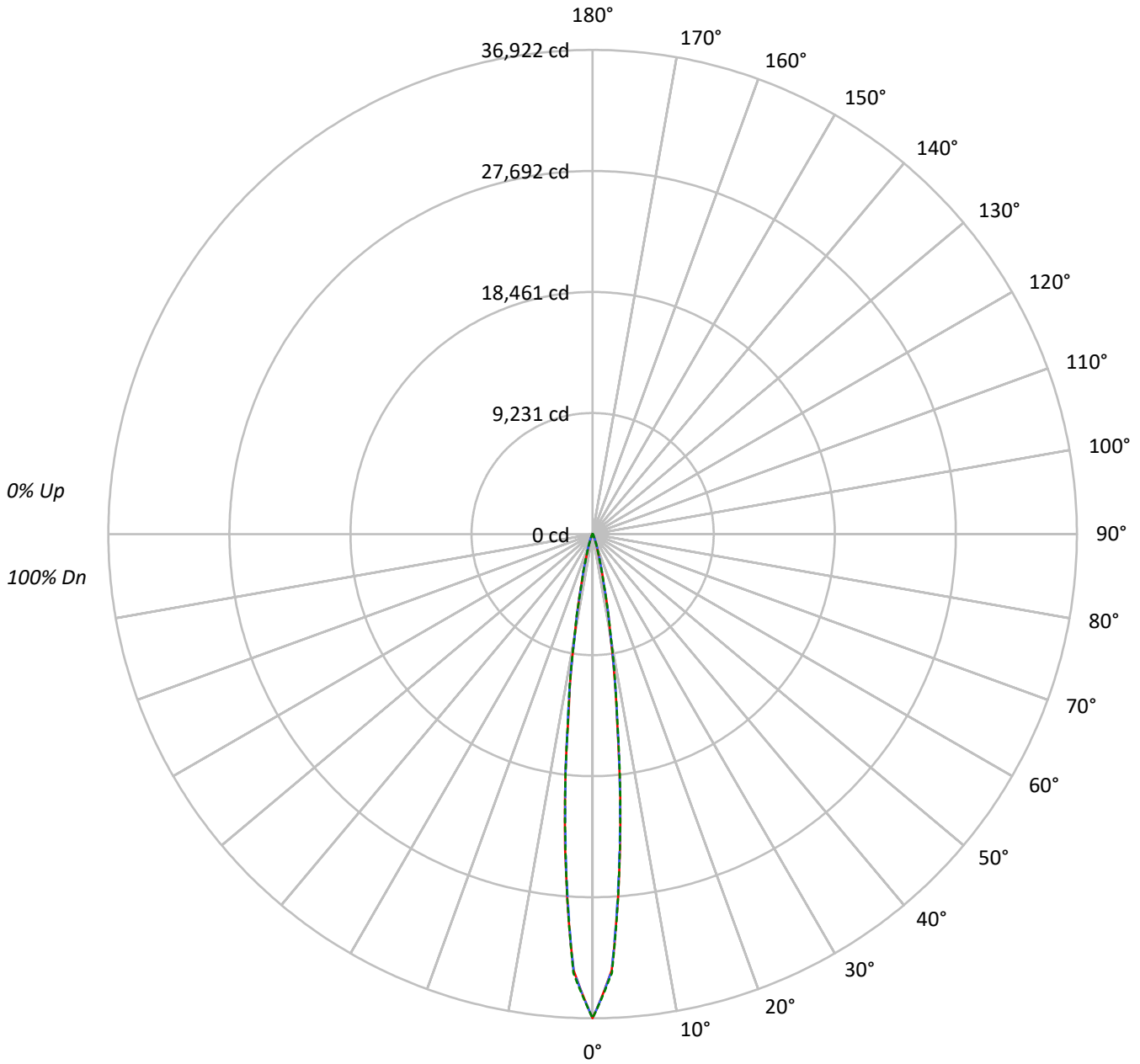


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4154405	4154405	4154405
5°	2441330	2409713	2428778
10°	728620	733724	744958
15°	181235	184771	179064
20°	54224	62791	55378
25°	19117	24352	19358
30°	7024	9248	7136
35°	3522	3972	3406
40°	2223	2443	2223
45°	1638	1750	1638
50°	1307	1307	1307
55°	1086	1086	1086
60°	878	878	878
65°	671	671	671
70°	570	570	570
75°	355	355	476
80°	244	244	244
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1750 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1757.5	64.9
10°-20°	722.9	26.7
20°-30°	143.6	5.3
30°-40°	35.8	1.3
40°-50°	18.8	0.7
50°-60°	14.0	0.5
60°-70°	9.9	0.4
70°-80°	5.6	0.2
80°-90°	1.7	0.1
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°	2624.1	96.8
0°-40°	2659.9	98.2
0°-60°	2692.7	99.4
0°-90°	2709.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2709.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36922	36922	36922	36922	36922	
5°	24022	23775	23711	23875	23898	1754
15°	2087	2126	2127	2090	2062	715
25°	245	278	313	277	248	129
35°	48	52	55	52	47	33
45°	23	23	25	23	23	18
55°	16	16	16	16	16	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	36921.5	36921.5	36921.5	36921.5	36921.5
2.5°	33304.7	33332.9	33343.8	33376.6	33498.5
5°	24022.0	23775.0	23710.9	23875.1	23898.5
7.5°	14229.7	14279.7	14462.6	14503.2	14356.3
10°	7808.8	7872.9	7863.5	7919.8	7983.9
12.5°	3993.5	3943.5	3927.9	3991.9	3902.8
15°	2086.6	2125.7	2127.3	2089.8	2061.6
17.5°	1122.2	1167.6	1242.6	1181.6	1087.9
20°	662.7	703.4	767.4	717.4	676.8
22.5°	409.5	442.3	487.7	448.6	415.8
25°	245.4	278.2	312.6	276.7	248.5
27.5°	145.4	173.5	195.4	171.9	143.8
30°	93.8	109.4	123.5	107.8	95.3
32.5°	65.6	71.9	78.2	71.9	65.6
35°	48.5	51.6	54.7	51.6	46.9
37.5°	37.5	40.6	42.2	39.1	35.9
40°	31.3	32.8	34.4	32.8	31.3
42.5°	26.6	28.1	28.1	28.1	26.6
45°	23.4	23.4	25.0	23.4	23.4
47.5°	20.3	20.3	21.9	20.3	20.3
50°	18.8	18.8	18.8	18.8	18.8
52.5°	17.2	17.2	17.2	17.2	17.2
55°	15.6	15.6	15.6	15.6	15.6
57.5°	14.1	14.1	14.1	14.1	14.1
60°	12.5	12.5	12.5	12.5	12.5
62.5°	10.9	10.9	10.9	10.9	10.9
65°	9.4	9.4	9.4	9.4	9.4
67.5°	9.4	9.4	9.4	9.4	9.4
70°	7.8	7.8	7.8	7.8	7.8
72.5°	6.3	6.3	6.3	6.3	6.3
75°	4.7	4.7	4.7	4.7	6.3
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
85°	1.6	1.6	1.6	1.6	1.6
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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