

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: P745802

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745802
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-EU4DR1515309050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2808.6 lumens
Efficiency: N/A
Efficacy: 96.8 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 (Ain): 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



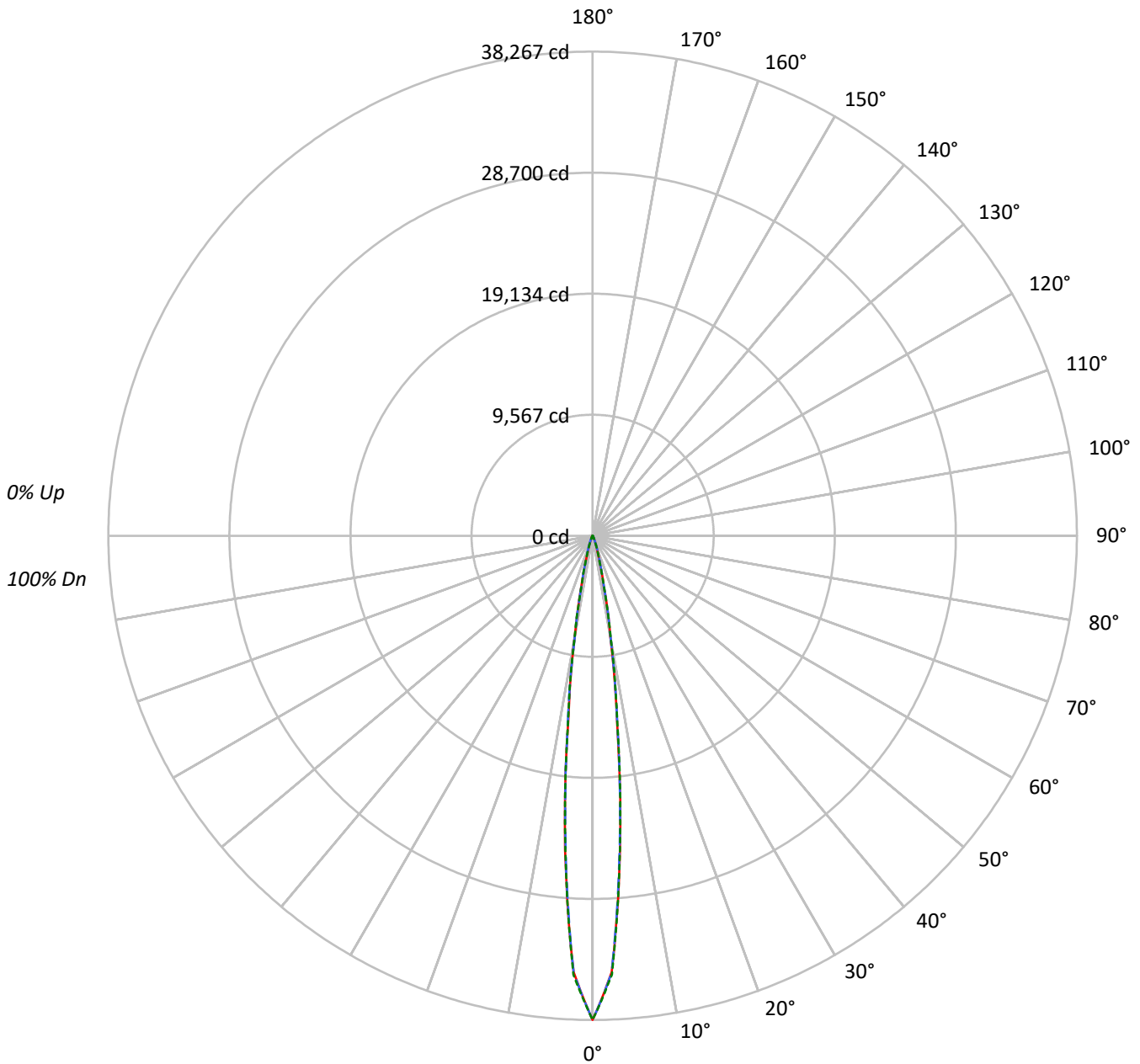
Downlight



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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°	4305778	4305778	4305778
5°	2530275	2497510	2517267
10°	755166	760457	772102
15°	187845	191502	185587
20°	56204	65082	57391
25°	19810	25240	20067
30°	7278	9585	7398
35°	3645	4118	3529
40°	2301	2528	2301
45°	1701	1813	1701
50°	1349	1349	1349
55°	1128	1128	1128
60°	913	913	913
65°	692	692	692
70°	592	592	592
75°	370	370	491
80°	252	252	252
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1821.6	64.9
10°-20°	749.3	26.7
20°-30°	148.8	5.3
30°-40°	37.1	1.3
40°-50°	19.5	0.7
50°-60°	14.5	0.5
60°-70°	10.2	0.4
70°-80°	5.8	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°	2719.7	96.8
0°-40°	2756.8	98.2
0°-60°	2790.8	99.4
0°-90°	2808.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38267	38267	38267	38267	38267	
5°	24897	24641	24575	24745	24769	1818
15°	2163	2203	2205	2166	2137	741
25°	254	288	324	287	258	134
35°	50	54	57	54	49	34
45°	24	24	26	24	24	19
55°	16	16	16	16	16	14
65°	10	10	10	10	10	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°	38266.8	38266.8	38266.8	38266.8	38266.8
2.5°	34518.2	34547.3	34558.7	34592.7	34719.1
5°	24897.2	24641.3	24574.8	24744.9	24769.2
7.5°	14748.1	14800.0	14989.5	15031.6	14879.4
10°	8093.3	8159.8	8150.0	8208.4	8274.8
12.5°	4139.0	4087.2	4071.0	4137.4	4045.0
15°	2162.7	2203.2	2204.8	2165.9	2136.7
17.5°	1163.1	1210.1	1287.9	1224.7	1127.5
20°	686.9	729.0	795.4	743.6	701.4
22.5°	424.4	458.4	505.4	464.9	430.9
25°	254.3	288.4	324.0	286.7	257.6
27.5°	150.7	179.8	202.5	178.2	149.0
30°	97.2	113.4	128.0	111.8	98.8
32.5°	68.0	74.5	81.0	74.5	68.0
35°	50.2	53.5	56.7	53.5	48.6
37.5°	38.9	42.1	43.7	40.5	37.3
40°	32.4	34.0	35.6	34.0	32.4
42.5°	27.5	29.2	29.2	29.2	27.5
45°	24.3	24.3	25.9	24.3	24.3
47.5°	21.1	21.1	22.7	21.1	21.1
50°	19.4	19.4	19.4	19.4	19.4
52.5°	17.8	17.8	17.8	17.8	17.8
55°	16.2	16.2	16.2	16.2	16.2
57.5°	14.6	14.6	14.6	14.6	14.6
60°	13.0	13.0	13.0	13.0	13.0
62.5°	11.3	11.3	11.3	11.3	11.3
65°	9.7	9.7	9.7	9.7	9.7
67.5°	9.7	9.7	9.7	9.7	9.7
70°	8.1	8.1	8.1	8.1	8.1
72.5°	6.5	6.5	6.5	6.5	6.5
75°	4.9	4.9	4.9	4.9	6.5
77.5°	4.9	4.9	4.9	4.9	4.9
80°	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2
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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