

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: P745800

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745800
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-EU4DR1515309050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.7 lumens
Efficiency: N/A
Efficacy: 100.0 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

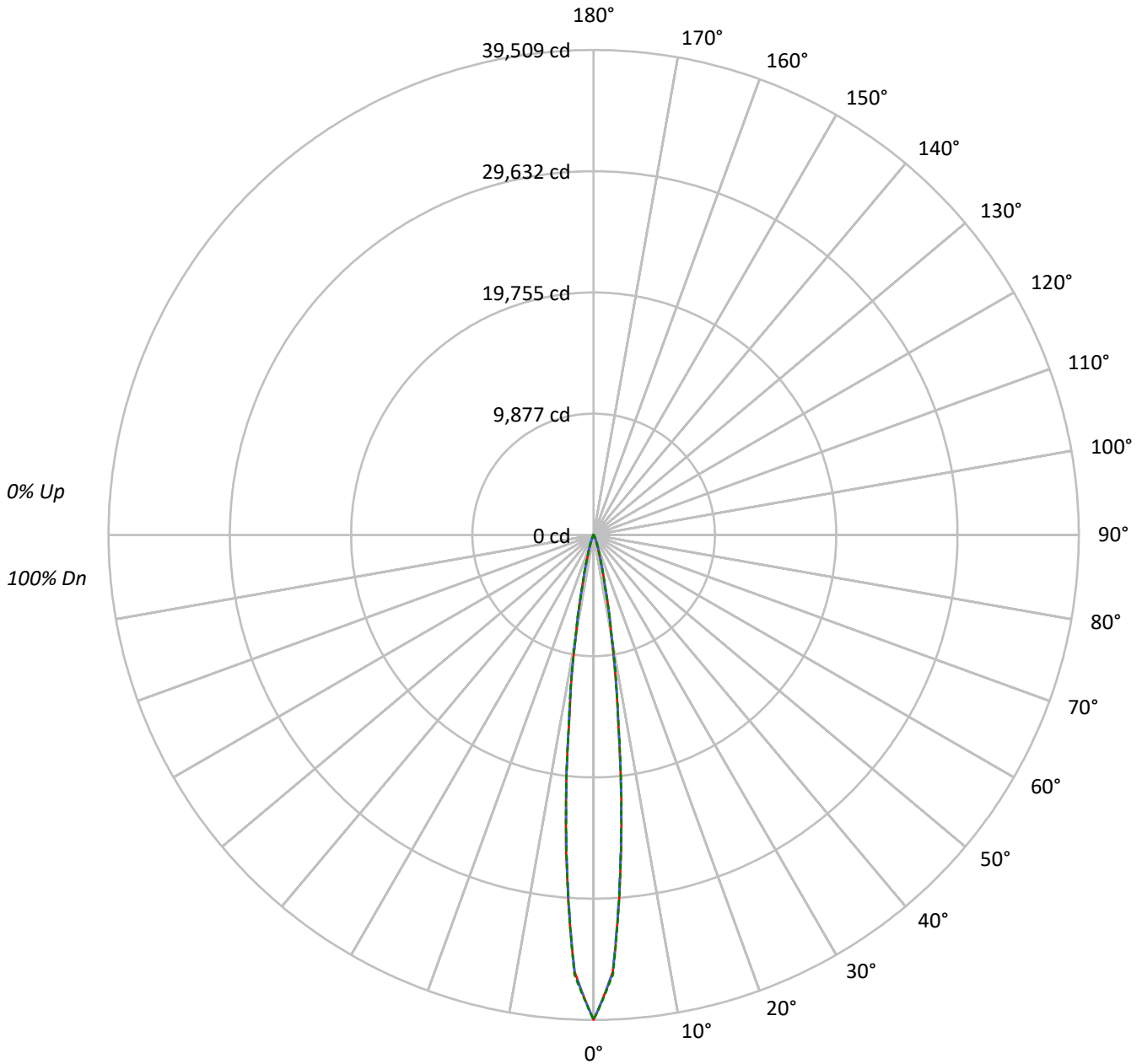


Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4445517	4445517	4445517
5°	2612401	2578569	2598966
10°	779678	785137	797155
15°	193934	197712	191615
20°	58029	67193	59256
25°	20457	26058	20714
30°	7518	9892	7638
35°	3762	4248	3645
40°	2379	2613	2379
45°	1757	1876	1757
50°	1398	1398	1398
55°	1162	1162	1162
60°	941	941	941
65°	714	714	714
70°	614	614	614
75°	378	378	506
80°	260	260	260
85°	141	141	141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1876 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1880.7	64.9
10°-20°	773.6	26.7
20°-30°	153.6	5.3
30°-40°	38.3	1.3
40°-50°	20.2	0.7
50°-60°	15.0	0.5
60°-70°	10.5	0.4
70°-80°	6.0	0.2
80°-90°	1.8	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°	2807.9	96.8
0°-40°	2846.3	98.2
0°-60°	2881.4	99.4
0°-90°	2899.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39509	39509	39509	39509	39509	
5°	25705	25441	25372	25548	25573	1877
15°	2233	2275	2276	2236	2206	766
25°	263	298	334	296	266	138
35°	52	55	58	55	50	35
45°	25	25	27	25	25	20
55°	17	17	17	17	17	15
65°	10	10	10	10	10	11
75°	5	5	5	5	7	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°	39508.7	39508.7	39508.7	39508.7	39508.7
2.5°	35638.5	35668.6	35680.3	35715.4	35845.9
5°	25705.3	25441.0	25372.4	25548.0	25573.1
7.5°	15226.8	15280.3	15476.0	15519.5	15362.3
10°	8356.0	8424.6	8414.5	8474.8	8543.3
12.5°	4273.3	4219.8	4203.1	4271.7	4176.3
15°	2232.8	2274.7	2276.3	2236.2	2206.1
17.5°	1200.9	1249.4	1329.7	1264.4	1164.1
20°	709.2	752.6	821.2	767.7	724.2
22.5°	438.2	473.3	521.8	480.0	444.9
25°	262.6	297.7	334.5	296.0	265.9
27.5°	155.5	185.7	209.1	184.0	153.9
30°	100.4	117.1	132.1	115.4	102.0
32.5°	70.2	76.9	83.6	76.9	70.2
35°	51.8	55.2	58.5	55.2	50.2
37.5°	40.1	43.5	45.2	41.8	38.5
40°	33.5	35.1	36.8	35.1	33.5
42.5°	28.4	30.1	30.1	30.1	28.4
45°	25.1	25.1	26.8	25.1	25.1
47.5°	21.7	21.7	23.4	21.7	21.7
50°	20.1	20.1	20.1	20.1	20.1
52.5°	18.4	18.4	18.4	18.4	18.4
55°	16.7	16.7	16.7	16.7	16.7
57.5°	15.1	15.1	15.1	15.1	15.1
60°	13.4	13.4	13.4	13.4	13.4
62.5°	11.7	11.7	11.7	11.7	11.7
65°	10.0	10.0	10.0	10.0	10.0
67.5°	10.0	10.0	10.0	10.0	10.0
70°	8.4	8.4	8.4	8.4	8.4
72.5°	6.7	6.7	6.7	6.7	6.7
75°	5.0	5.0	5.0	5.0	6.7
77.5°	5.0	5.0	5.0	5.0	5.0
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
85°	1.7	1.7	1.7	1.7	1.7
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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