

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: P745857

Luminaire Tested: LD4D30D010-EU4DR2015309035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR2015309035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3311.4 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
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

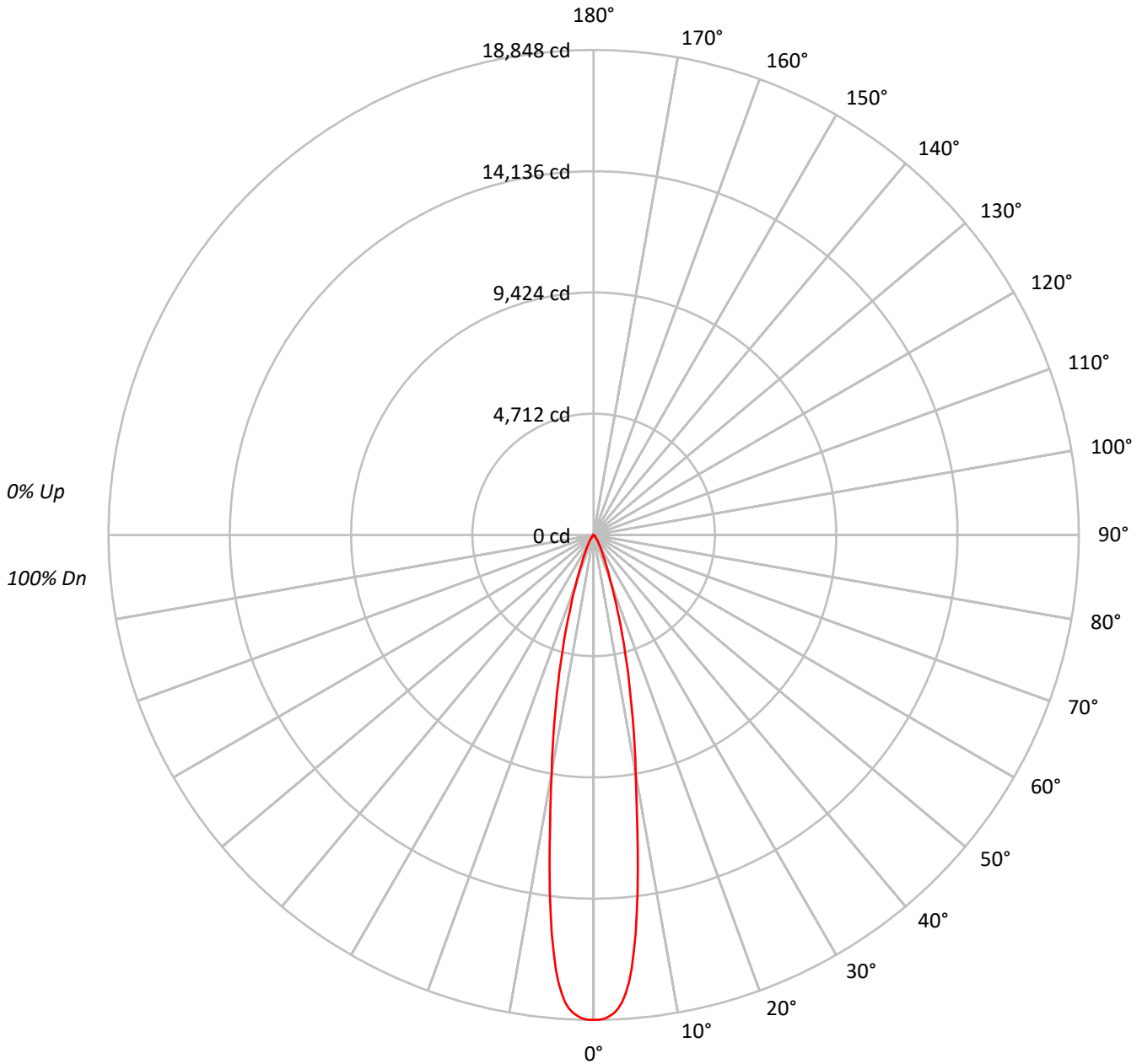


Downlight



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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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	100	99	98	97	98	96	95	94												
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	98	96	95	94	93	92	91	94												
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	98	96	95	94	93	92	91	94												
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	98	96	95	94	93	92	91	88												
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	98	96	95	94	93	92	91	85												
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	98	96	95	94	93	92	91	83												
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	98	96	95	94	93	92	91	81												
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	98	96	95	94	93	92	91	79												
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	98	96	95	94	93	92	91	77												
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	98	96	95	94	93	92	91	75												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2059292
5°	1857870
10°	1042740
15°	530046
20°	224418
25°	103594
30°	54843
35°	29544
40°	15803
45°	9333
50°	5422
55°	2876
60°	1836
65°	1293
70°	543
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9333 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1341.9	40.5
10°-20°	1321.4	39.9
20°-30°	431.7	13.0
30°-40°	147.0	4.4
40°-50°	49.4	1.5
50°-60°	14.9	0.4
60°-70°	5.0	0.1
70°-80°	0.2	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°	3094.9	93.5
0°-40°	3241.9	97.9
0°-60°	3306.2	99.8
0°-90°	3311.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3311.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18848	
5°	16939	###
15°	4686	1321
25°	859	432
35°	222	147
45°	60	49
55°	15	15
65°	5	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18847.5
0.5°	18847.5
1°	18824.0
1.5°	18777.0
2°	18691.5
2.5°	18577.3
3°	18416.2
3.5°	18191.3
4°	17857.3
4.5°	17451.2
5°	16939.3
5.5°	16266.3
6°	15576.5
6.5°	14786.0
7°	14012.3
7.5°	13106.0
8°	12297.1
8.5°	11483.1
9°	10731.2
9.5°	10041.4
10°	9398.6
12.5°	6748.5
15°	4685.9
17.5°	3061.3
20°	1930.1
22.5°	1250.3
25°	859.3
27.5°	604.2
30°	434.7
32.5°	312.2
35°	221.5
37.5°	154.4
40°	110.8
42.5°	80.6
45°	60.4
47.5°	47.0
50°	31.9
52.5°	20.1
55°	15.1
57.5°	11.7
60°	8.4
62.5°	6.7
65°	5.0



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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67.5°		3.4
70°		1.7

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(END OF REPORT)