

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: P745831

Luminaire Tested: LD4D30D010-EU4DR2015309027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745831
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-EU4DR2015309027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037.9 lumens
Efficiency: N/A
Efficacy: 104.8 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

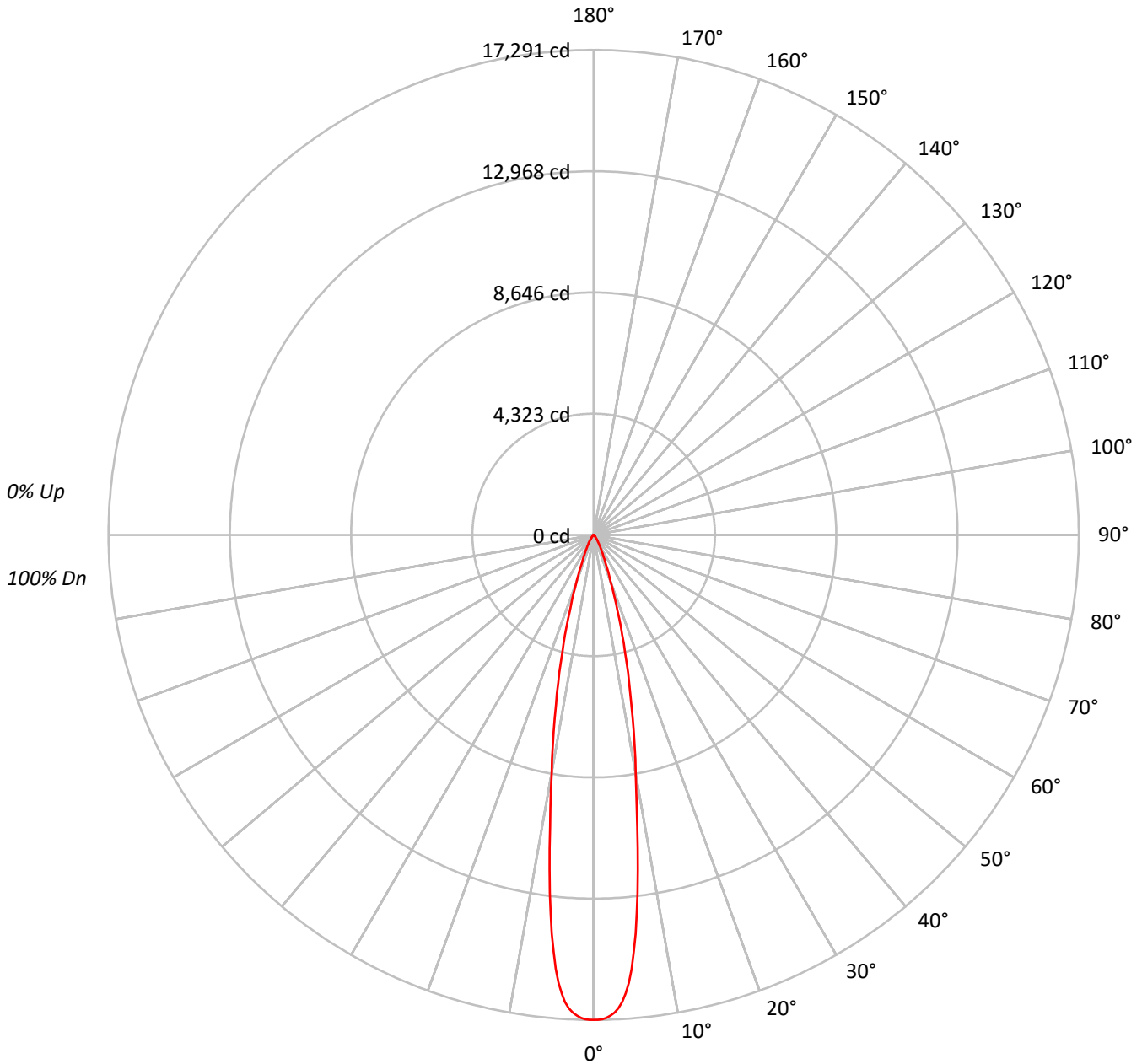


Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1889184
5°	1704398
10°	956601
15°	486259
20°	205873
25°	95034
30°	50314
35°	27103
40°	14491
45°	8560
50°	4980
55°	2648
60°	1683
65°	1189
70°	479
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.1	40.5
10°-20°	1212.2	39.9
20°-30°	396.0	13.0
30°-40°	134.8	4.4
40°-50°	45.3	1.5
50°-60°	13.7	0.5
60°-70°	4.6	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°	2839.3	93.5
0°-40°	2974.1	97.9
0°-60°	3033.1	99.8
0°-90°	3037.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17291	
5°	15540	###
15°	4299	1212
25°	788	396
35°	203	135
45°	55	45
55°	14	14
65°	5	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17290.6
0.5°	17290.6
1°	17269.0
1.5°	17225.9
2°	17147.4
2.5°	17042.7
3°	16894.9
3.5°	16688.6
4°	16382.2
4.5°	16009.6
5°	15540.0
5.5°	14922.6
6°	14289.7
6.5°	13564.6
7°	12854.8
7.5°	12023.3
8°	11281.2
8.5°	10534.5
9°	9844.7
9.5°	9211.9
10°	8622.2
12.5°	6191.0
15°	4298.8
17.5°	2808.4
20°	1770.6
22.5°	1147.1
25°	788.3
27.5°	554.3
30°	398.8
32.5°	286.4
35°	203.2
37.5°	141.7
40°	101.6
42.5°	73.9
45°	55.4
47.5°	43.1
50°	29.3
52.5°	18.5
55°	13.9
57.5°	10.8
60°	7.7
62.5°	6.2
65°	4.6



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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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Scaled Data Report





67.5°		3.1
70°		1.5

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(END OF REPORT)