

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: P743916

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743916
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: LD4D20D010-EU4DR1515309040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2121.3 lumens
Efficiency: N/A
Efficacy: 91.8 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): 23.1
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

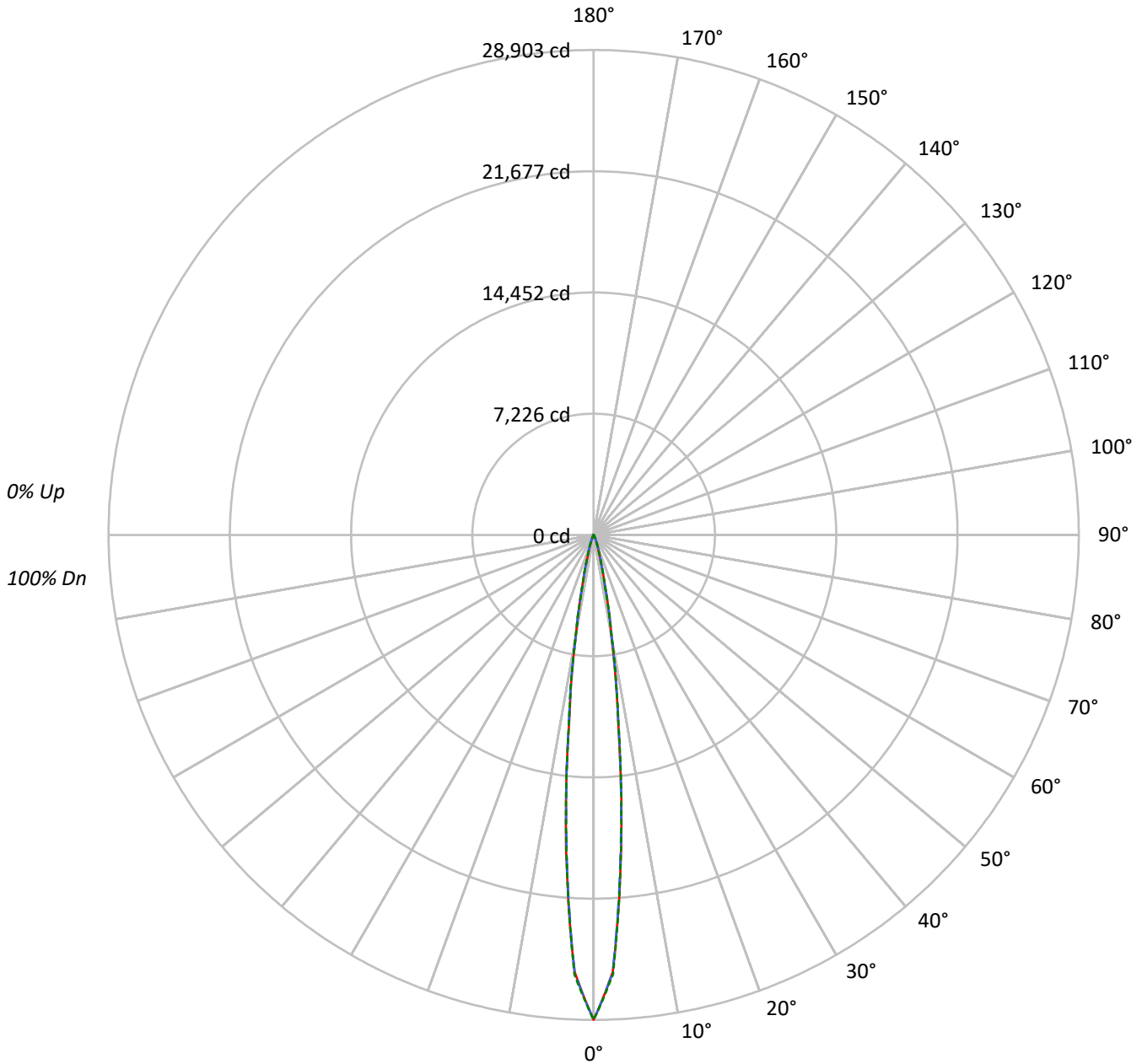


Downlight



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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°	3252187	3252187	3252187
5°	1911142	1886395	1901314
10°	570389	574383	583172
15°	141881	144643	140178
20°	42450	49159	43350
25°	14965	19062	15152
30°	5496	7241	5586
35°	2752	3108	2665
40°	1740	1910	1740
45°	1288	1372	1288
50°	1022	1022	1022
55°	849	849	849
60°	688	688	688
65°	521	521	521
70°	446	446	446
75°	280	280	370
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1372 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1375.8	64.9
10°-20°	565.9	26.7
20°-30°	112.4	5.3
30°-40°	28.1	1.3
40°-50°	14.8	0.7
50°-60°	10.9	0.5
60°-70°	7.7	0.4
70°-80°	4.4	0.2
80°-90°	1.3	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°	2054.2	96.8
0°-40°	2082.2	98.2
0°-60°	2107.9	99.4
0°-90°	2121.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28903	28903	28903	28903	28903	
5°	18805	18612	18562	18690	18708	1373
15°	1634	1664	1665	1636	1614	560
25°	192	218	245	217	194	101
35°	38	40	43	40	37	26
45°	18	18	20	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28903.2	28903.2	28903.2	28903.2	28903.2
2.5°	26071.9	26093.9	26102.5	26128.1	26223.6
5°	18805.1	18611.7	18561.6	18690.1	18708.4
7.5°	11139.4	11178.5	11321.7	11353.5	11238.5
10°	6113.0	6163.1	6155.8	6199.8	6250.0
12.5°	3126.2	3087.1	3074.8	3125.0	3055.3
15°	1633.5	1664.1	1665.3	1635.9	1613.9
17.5°	878.5	914.0	972.7	925.0	851.6
20°	518.8	550.6	600.8	561.6	529.8
22.5°	320.6	346.3	381.8	351.2	325.5
25°	192.1	217.8	244.7	216.6	194.5
27.5°	113.8	135.8	152.9	134.6	112.6
30°	73.4	85.7	96.7	84.4	74.6
32.5°	51.4	56.3	61.2	56.3	51.4
35°	37.9	40.4	42.8	40.4	36.7
37.5°	29.4	31.8	33.0	30.6	28.1
40°	24.5	25.7	26.9	25.7	24.5
42.5°	20.8	22.0	22.0	22.0	20.8
45°	18.4	18.4	19.6	18.4	18.4
47.5°	15.9	15.9	17.1	15.9	15.9
50°	14.7	14.7	14.7	14.7	14.7
52.5°	13.5	13.5	13.5	13.5	13.5
55°	12.2	12.2	12.2	12.2	12.2
57.5°	11.0	11.0	11.0	11.0	11.0
60°	9.8	9.8	9.8	9.8	9.8
62.5°	8.6	8.6	8.6	8.6	8.6
65°	7.3	7.3	7.3	7.3	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	6.1	6.1	6.1	6.1	6.1
72.5°	4.9	4.9	4.9	4.9	4.9
75°	3.7	3.7	3.7	3.7	4.9
77.5°	3.7	3.7	3.7	3.7	3.7
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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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