

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: P743876

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743876
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-EU4DR1515309027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1803.6 lumens
Efficiency: N/A
Efficacy: 78.1 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 (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



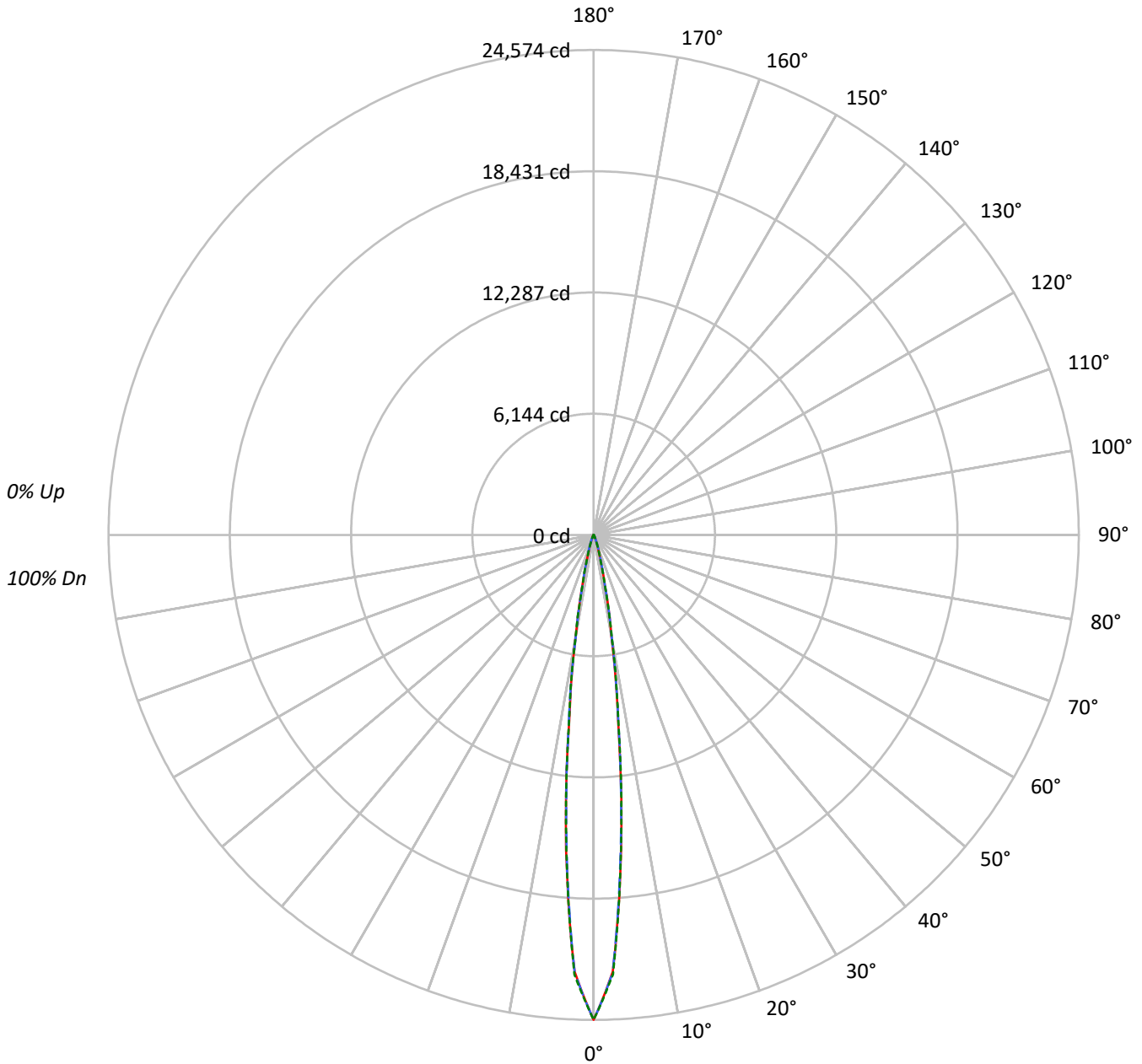
Downlight



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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°	2765009	2765009	2765009
5°	1624853	1603806	1616499
10°	484938	488335	495809
15°	120627	122972	119176
20°	36092	41795	36853
25°	12721	16211	12885
30°	4673	6155	4755
35°	2338	2643	2266
40°	1477	1626	1477
45°	1092	1162	1092
50°	869	869	869
55°	724	724	724
60°	583	583	583
65°	442	442	442
70°	380	380	380
75°	234	234	317
80°	166	166	166
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1169.7	64.9
10°-20°	481.2	26.7
20°-30°	95.6	5.3
30°-40°	23.8	1.3
40°-50°	12.5	0.7
50°-60°	9.3	0.5
60°-70°	6.5	0.4
70°-80°	3.7	0.2
80°-90°	1.1	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°	1746.5	96.8
0°-40°	1770.3	98.2
0°-60°	1792.1	99.4
0°-90°	1803.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24574	24574	24574	24574	24574	
5°	15988	15824	15781	15890	15906	1168
15°	1389	1415	1416	1391	1372	476
25°	163	185	208	184	165	86
35°	32	34	36	34	31	22
45°	16	16	17	16	16	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	7
75°	3	3	3	3	4	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°	24573.5	24573.5	24573.5	24573.5	24573.5
2.5°	22166.3	22185.0	22192.3	22214.1	22295.3
5°	15988.1	15823.7	15781.0	15890.3	15905.9
7.5°	9470.7	9504.0	9625.7	9652.8	9555.0
10°	5197.2	5239.9	5233.6	5271.1	5313.7
12.5°	2657.9	2624.6	2614.2	2656.9	2597.6
15°	1388.8	1414.8	1415.8	1390.9	1372.1
17.5°	746.9	777.1	827.0	786.5	724.0
20°	441.1	468.1	510.8	477.5	450.4
22.5°	272.6	294.4	324.6	298.6	276.7
25°	163.3	185.2	208.1	184.1	165.4
27.5°	96.7	115.5	130.0	114.4	95.7
30°	62.4	72.8	82.2	71.8	63.5
32.5°	43.7	47.9	52.0	47.9	43.7
35°	32.2	34.3	36.4	34.3	31.2
37.5°	25.0	27.0	28.1	26.0	23.9
40°	20.8	21.8	22.9	21.8	20.8
42.5°	17.7	18.7	18.7	18.7	17.7
45°	15.6	15.6	16.6	15.6	15.6
47.5°	13.5	13.5	14.6	13.5	13.5
50°	12.5	12.5	12.5	12.5	12.5
52.5°	11.4	11.4	11.4	11.4	11.4
55°	10.4	10.4	10.4	10.4	10.4
57.5°	9.4	9.4	9.4	9.4	9.4
60°	8.3	8.3	8.3	8.3	8.3
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	6.2	6.2	6.2	6.2	6.2
70°	5.2	5.2	5.2	5.2	5.2
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.1	3.1	3.1	3.1	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
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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