

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



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: P743881

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743881
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-EU4DR1515309027-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 1993.3 lumens
Efficiency: N/A
Efficacy: 86.3 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

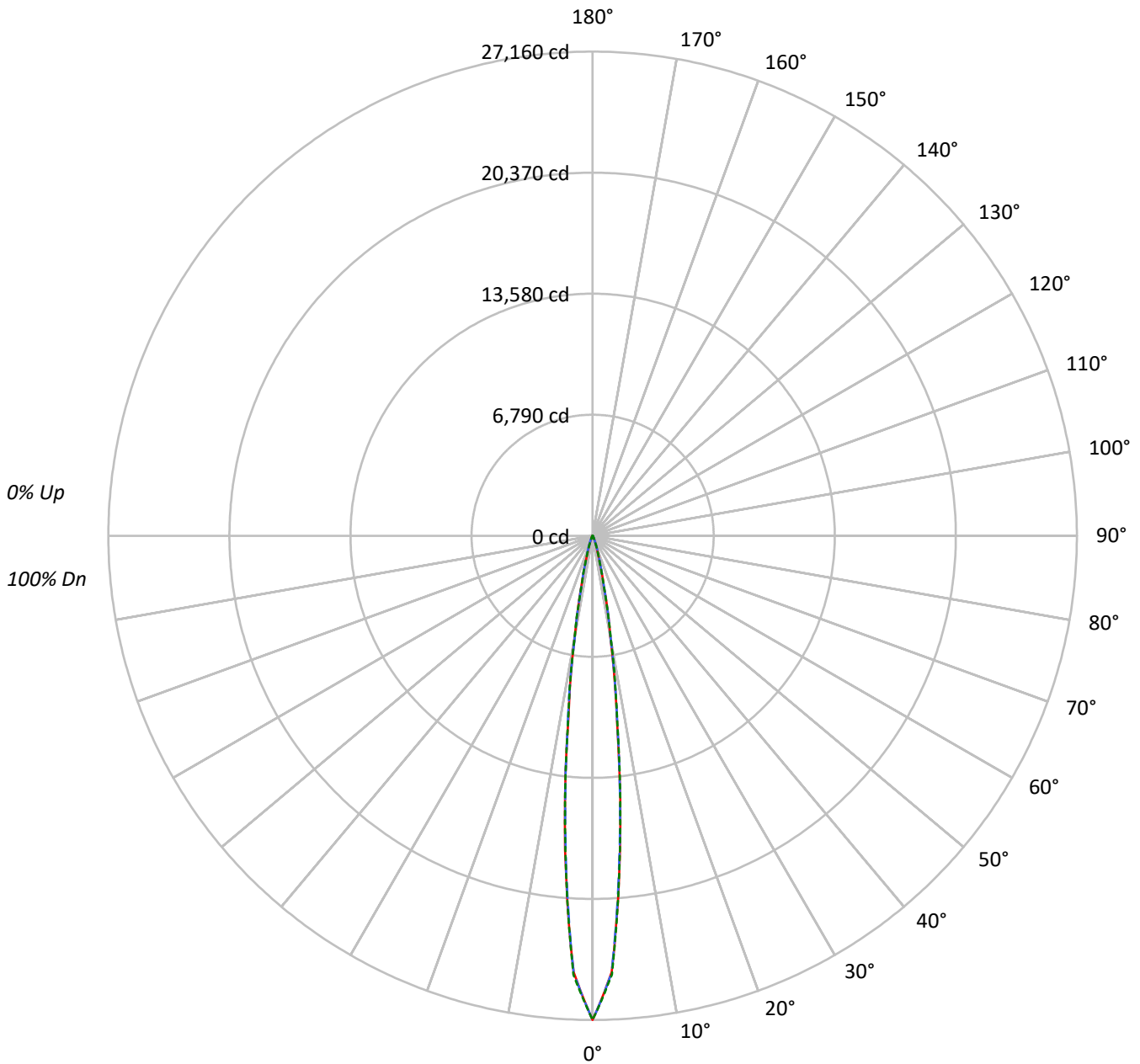


Downlight



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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	99	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°	3056064	3056064	3056064
5°	1795884	1772632	1786656
10°	535987	539747	548005
15°	133325	135922	131727
20°	39889	46189	40740
25°	14061	17917	14240
30°	5167	6799	5249
35°	2585	2919	2505
40°	1633	1797	1633
45°	1204	1288	1204
50°	960	960	960
55°	800	800	800
60°	646	646	646
65°	492	492	492
70°	417	417	417
75°	257	257	348
80°	181	181	181
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1292.9	64.9
10°-20°	531.8	26.7
20°-30°	105.6	5.3
30°-40°	26.4	1.3
40°-50°	13.8	0.7
50°-60°	10.3	0.5
60°-70°	7.2	0.4
70°-80°	4.1	0.2
80°-90°	1.2	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°	1930.3	96.8
0°-40°	1956.7	98.2
0°-60°	1980.8	99.4
0°-90°	1993.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27160	27160	27160	27160	27160	
5°	17671	17489	17442	17563	17580	1290
15°	1535	1564	1565	1537	1517	526
25°	180	205	230	204	183	95
35°	36	38	40	38	34	24
45°	17	17	18	17	17	13
55°	12	12	12	12	12	10
65°	7	7	7	7	7	7
75°	3	3	3	3	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°	27160.2	27160.2	27160.2	27160.2	27160.2
2.5°	24499.6	24520.3	24528.3	24552.5	24642.1
5°	17671.0	17489.3	17442.2	17562.9	17580.2
7.5°	10467.6	10504.4	10638.9	10668.8	10560.8
10°	5744.3	5791.5	5784.6	5825.9	5873.1
12.5°	2937.7	2900.9	2889.4	2936.5	2871.0
15°	1535.0	1563.7	1564.9	1537.3	1516.6
17.5°	825.5	858.9	914.1	869.2	800.2
20°	487.5	517.4	564.5	527.8	497.9
22.5°	301.2	325.4	358.7	330.0	305.8
25°	180.5	204.7	230.0	203.5	182.8
27.5°	106.9	127.6	143.7	126.5	105.8
30°	69.0	80.5	90.8	79.3	70.1
32.5°	48.3	52.9	57.5	52.9	48.3
35°	35.6	37.9	40.2	37.9	34.5
37.5°	27.6	29.9	31.0	28.7	26.4
40°	23.0	24.1	25.3	24.1	23.0
42.5°	19.5	20.7	20.7	20.7	19.5
45°	17.2	17.2	18.4	17.2	17.2
47.5°	14.9	14.9	16.1	14.9	14.9
50°	13.8	13.8	13.8	13.8	13.8
52.5°	12.6	12.6	12.6	12.6	12.6
55°	11.5	11.5	11.5	11.5	11.5
57.5°	10.3	10.3	10.3	10.3	10.3
60°	9.2	9.2	9.2	9.2	9.2
62.5°	8.0	8.0	8.0	8.0	8.0
65°	6.9	6.9	6.9	6.9	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	5.7	5.7	5.7	5.7	5.7
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.4	3.4	3.4	3.4	4.6
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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