

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: P743890

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743890
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-EU4DR1515309030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1955.5 lumens
Efficiency: N/A
Efficacy: 84.7 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

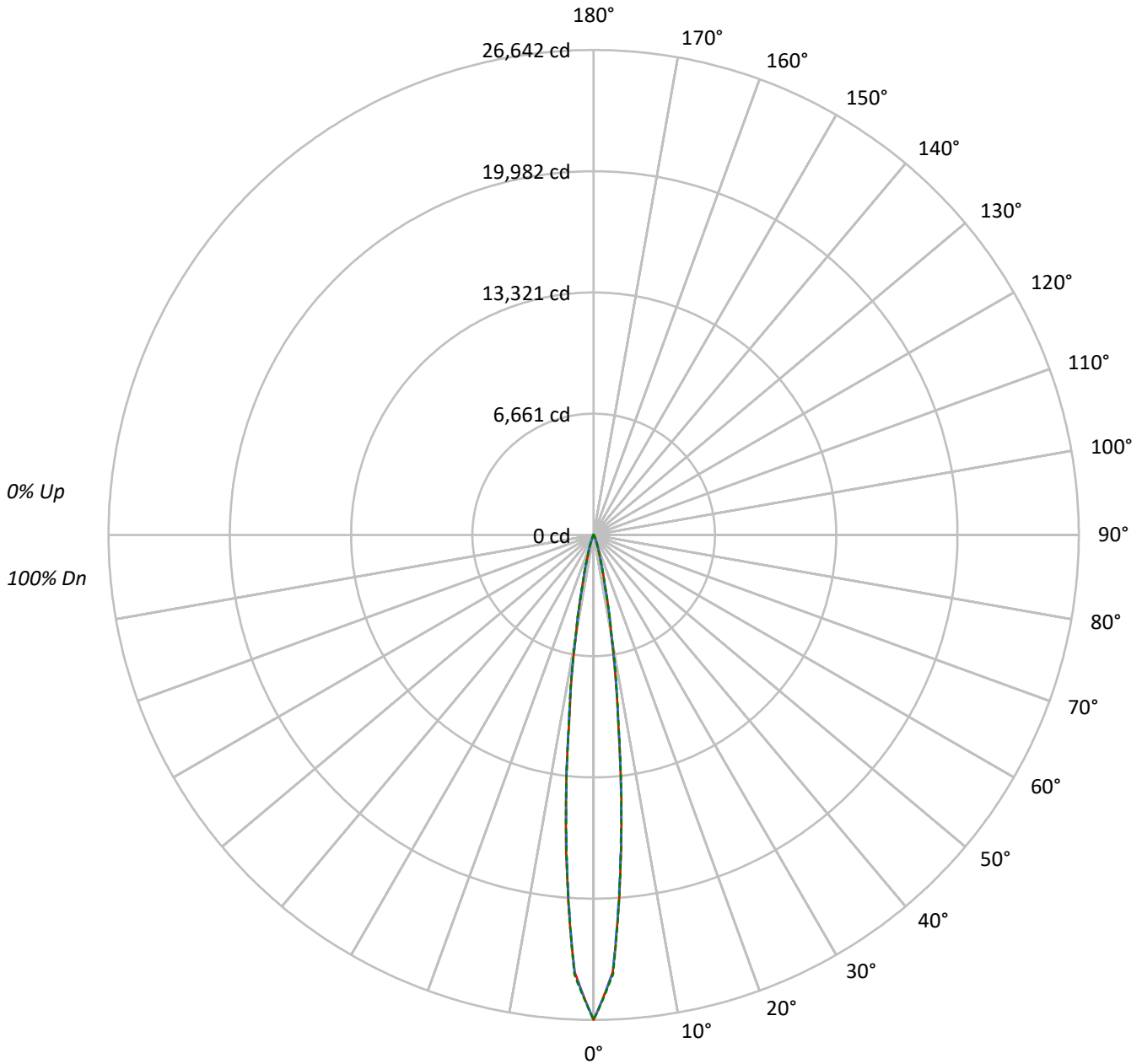


Downlight



TEST NUMBER: P743890
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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	87	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°	2997779	2997779	2997779
5°	1761635	1738830	1752580
10°	525770	529446	537554
15°	130780	133325	129208
20°	39128	45313	39962
25°	13796	17574	13968
30°	5069	6672	5152
35°	2542	2868	2455
40°	1605	1761	1605
45°	1183	1260	1183
50°	939	939	939
55°	787	787	787
60°	632	632	632
65°	485	485	485
70°	410	410	410
75°	257	257	340
80°	181	181	181
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1260 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1268.2	64.9
10°-20°	521.7	26.7
20°-30°	103.6	5.3
30°-40°	25.9	1.3
40°-50°	13.6	0.7
50°-60°	10.1	0.5
60°-70°	7.1	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°	1893.5	96.8
0°-40°	1919.4	98.2
0°-60°	1943.0	99.4
0°-90°	1955.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26642	26642	26642	26642	26642	
5°	17334	17156	17110	17228	17245	1266
15°	1506	1534	1535	1508	1488	516
25°	177	201	226	200	179	93
35°	35	37	40	37	34	24
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	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°	26642.2	26642.2	26642.2	26642.2	26642.2
2.5°	24032.4	24052.7	24060.6	24084.2	24172.2
5°	17334.0	17155.8	17109.6	17228.0	17244.9
7.5°	10268.0	10304.1	10436.1	10465.4	10359.4
10°	5634.8	5681.0	5674.2	5714.8	5761.1
12.5°	2881.7	2845.6	2834.3	2880.5	2816.3
15°	1505.7	1533.9	1535.0	1507.9	1487.6
17.5°	809.8	842.5	896.6	852.7	785.0
20°	478.2	507.5	553.8	517.7	488.4
22.5°	295.5	319.2	351.9	323.7	300.0
25°	177.1	200.8	225.6	199.6	179.3
27.5°	104.9	125.2	141.0	124.1	103.8
30°	67.7	78.9	89.1	77.8	68.8
32.5°	47.4	51.9	56.4	51.9	47.4
35°	35.0	37.2	39.5	37.2	33.8
37.5°	27.1	29.3	30.5	28.2	25.9
40°	22.6	23.7	24.8	23.7	22.6
42.5°	19.2	20.3	20.3	20.3	19.2
45°	16.9	16.9	18.0	16.9	16.9
47.5°	14.7	14.7	15.8	14.7	14.7
50°	13.5	13.5	13.5	13.5	13.5
52.5°	12.4	12.4	12.4	12.4	12.4
55°	11.3	11.3	11.3	11.3	11.3
57.5°	10.2	10.2	10.2	10.2	10.2
60°	9.0	9.0	9.0	9.0	9.0
62.5°	7.9	7.9	7.9	7.9	7.9
65°	6.8	6.8	6.8	6.8	6.8
67.5°	6.8	6.8	6.8	6.8	6.8
70°	5.6	5.6	5.6	5.6	5.6
72.5°	4.5	4.5	4.5	4.5	4.5
75°	3.4	3.4	3.4	3.4	4.5
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

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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