

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: P743894

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743894
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-EU4DR1515309030-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 2058.3 lumens
Efficiency: N/A
Efficacy: 89.1 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 (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

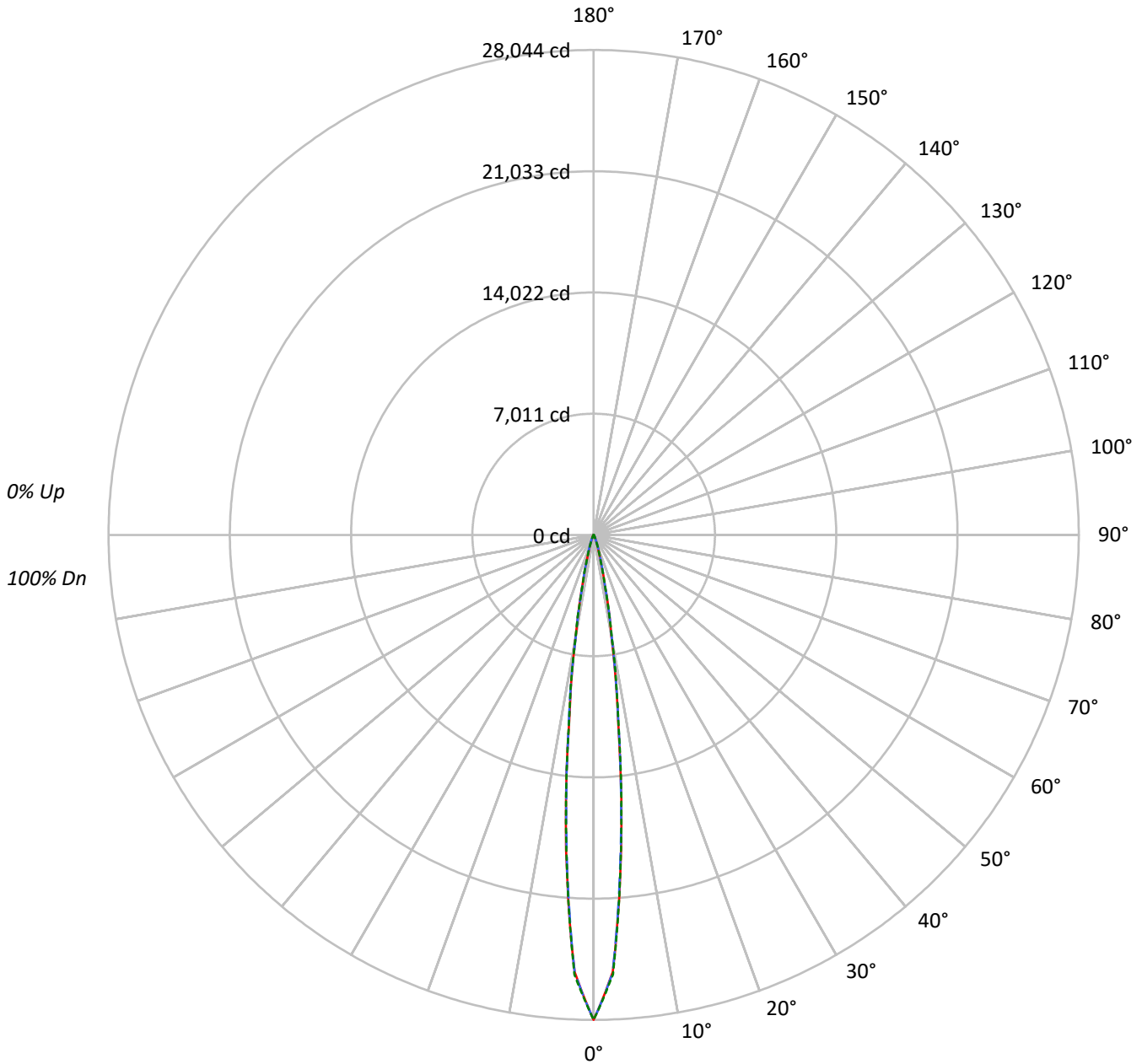


Downlight



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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	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°	315554	315554	315554
5°	1854351	1830347	1844819
10°	553435	557317	565845
15°	137659	140343	136009
20°	41190	47695	42065
25°	14521	18494	14708
30°	5332	7024	5421
35°	2672	3021	2585
40°	1683	1853	1683
45°	1246	1330	1246
50°	987	987	987
55°	828	828	828
60°	667	667	667
65°	507	507	507
70°	432	432	432
75°	272	272	355
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1335.0	64.9
10°-20°	549.1	26.7
20°-30°	109.1	5.3
30°-40°	27.2	1.3
40°-50°	14.3	0.7
50°-60°	10.6	0.5
60°-70°	7.5	0.4
70°-80°	4.3	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°	1993.1	96.8
0°-40°	2020.4	98.2
0°-60°	2045.3	99.4
0°-90°	2058.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28044	28044	28044	28044	28044	
5°	18246	18059	18010	18135	18152	1332
15°	1585	1615	1616	1587	1566	543
25°	186	211	237	210	189	98
35°	37	39	42	39	36	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	7
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°	28044.4	28044.4	28044.4	28044.4	28044.4
2.5°	25297.2	25318.6	25326.9	25351.8	25444.4
5°	18246.3	18058.8	18010.1	18134.7	18152.5
7.5°	10808.4	10846.4	10985.3	11016.2	10904.6
10°	5931.3	5980.0	5972.9	6015.6	6064.3
12.5°	3033.3	2995.3	2983.5	3032.2	2964.5
15°	1584.9	1614.6	1615.8	1587.3	1565.9
17.5°	852.4	886.9	943.8	897.5	826.3
20°	503.4	534.2	582.9	544.9	514.1
22.5°	311.1	336.0	370.4	340.7	315.8
25°	186.4	211.3	237.4	210.1	188.8
27.5°	110.4	131.8	148.4	130.6	109.2
30°	71.2	83.1	93.8	81.9	72.4
32.5°	49.9	54.6	59.4	54.6	49.9
35°	36.8	39.2	41.6	39.2	35.6
37.5°	28.5	30.9	32.1	29.7	27.3
40°	23.7	24.9	26.1	24.9	23.7
42.5°	20.2	21.4	21.4	21.4	20.2
45°	17.8	17.8	19.0	17.8	17.8
47.5°	15.4	15.4	16.6	15.4	15.4
50°	14.2	14.2	14.2	14.2	14.2
52.5°	13.1	13.1	13.1	13.1	13.1
55°	11.9	11.9	11.9	11.9	11.9
57.5°	10.7	10.7	10.7	10.7	10.7
60°	9.5	9.5	9.5	9.5	9.5
62.5°	8.3	8.3	8.3	8.3	8.3
65°	7.1	7.1	7.1	7.1	7.1
67.5°	7.1	7.1	7.1	7.1	7.1
70°	5.9	5.9	5.9	5.9	5.9
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.6	3.6	3.6	3.6	4.7
77.5°	3.6	3.6	3.6	3.6	3.6
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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