

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: P743915

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743915
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-EU4DR1515309040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 2020.4 lumens
Efficiency: N/A
Efficacy: 87.5 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

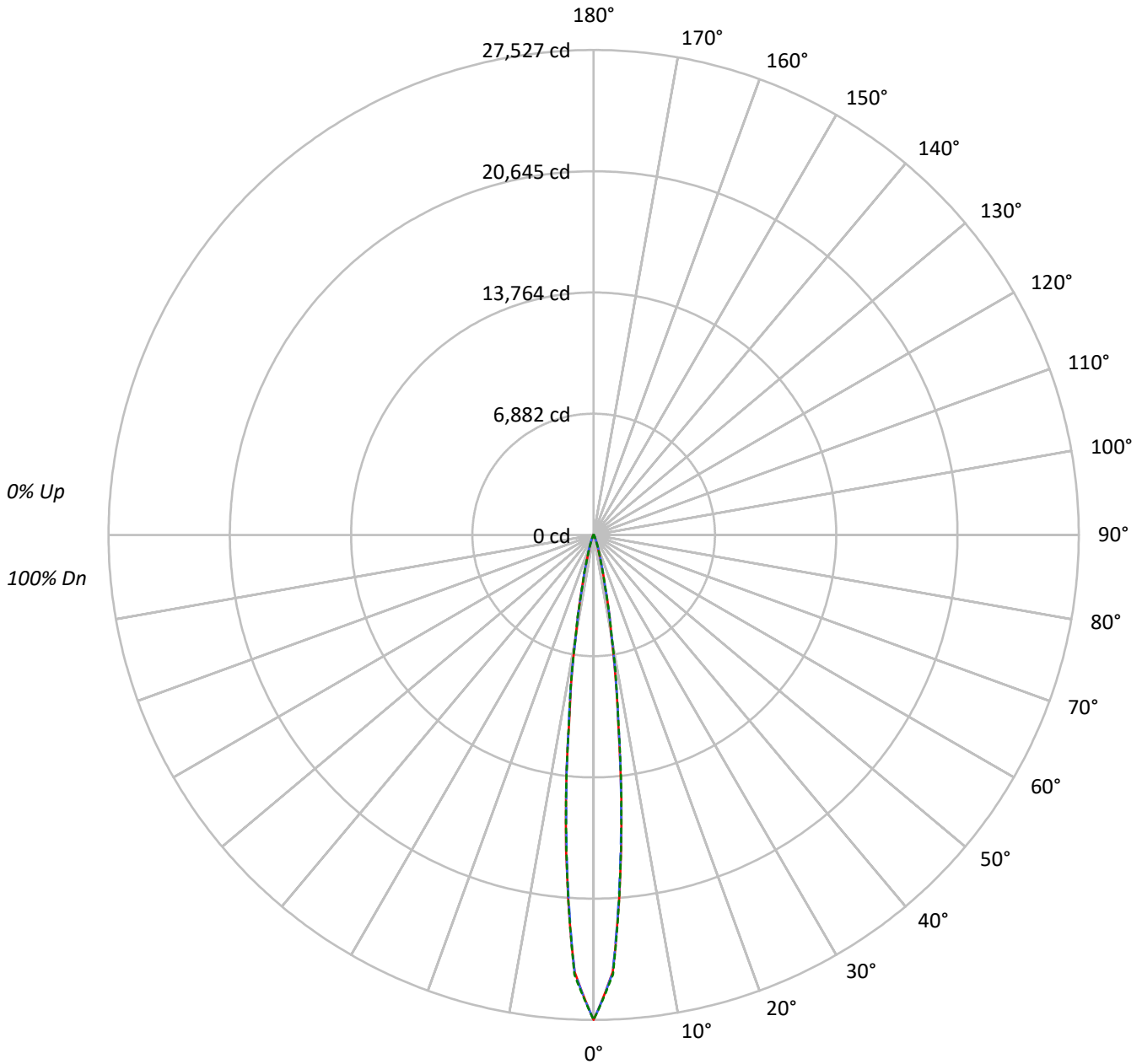


Downlight



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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°	3097325	3097325	3097325
5°	1820133	1796565	1810773
10°	543227	547034	555404
15°	135123	137755	133499
20°	40429	46819	41288
25°	14256	18159	14435
30°	5234	6897	5324
35°	2622	2963	2542
40°	1655	1818	1655
45°	1225	1302	1225
50°	974	974	974
55°	814	814	814
60°	653	653	653
65°	500	500	500
70°	424	424	424
75°	265	265	355
80°	181	181	181
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1302 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1310.3	64.9
10°-20°	539.0	26.7
20°-30°	107.1	5.3
30°-40°	26.7	1.3
40°-50°	14.0	0.7
50°-60°	10.4	0.5
60°-70°	7.4	0.4
70°-80°	4.2	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°	1956.4	96.8
0°-40°	1983.1	98.2
0°-60°	2007.6	99.4
0°-90°	2020.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2020.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27527	27527	27527	27527	27527	
5°	17910	17726	17678	17800	17818	1308
15°	1556	1585	1586	1558	1537	533
25°	183	207	233	206	185	96
35°	36	38	41	38	35	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	10
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°	27526.9	27526.9	27526.9	27526.9	27526.9
2.5°	24830.3	24851.3	24859.5	24883.9	24974.8
5°	17909.6	17725.5	17677.7	17800.1	17817.5
7.5°	10608.9	10646.2	10782.6	10812.9	10703.3
10°	5821.9	5869.6	5862.7	5904.6	5952.4
12.5°	2977.4	2940.1	2928.4	2976.2	2909.8
15°	1555.7	1584.8	1586.0	1558.0	1537.0
17.5°	836.7	870.5	926.4	881.0	811.1
20°	494.1	524.4	572.2	534.9	504.6
22.5°	305.3	329.8	363.6	334.4	310.0
25°	183.0	207.4	233.1	206.3	185.3
27.5°	108.4	129.3	145.7	128.2	107.2
30°	69.9	81.6	92.1	80.4	71.1
32.5°	48.9	53.6	58.3	53.6	48.9
35°	36.1	38.5	40.8	38.5	35.0
37.5°	28.0	30.3	31.5	29.1	26.8
40°	23.3	24.5	25.6	24.5	23.3
42.5°	19.8	21.0	21.0	21.0	19.8
45°	17.5	17.5	18.6	17.5	17.5
47.5°	15.1	15.1	16.3	15.1	15.1
50°	14.0	14.0	14.0	14.0	14.0
52.5°	12.8	12.8	12.8	12.8	12.8
55°	11.7	11.7	11.7	11.7	11.7
57.5°	10.5	10.5	10.5	10.5	10.5
60°	9.3	9.3	9.3	9.3	9.3
62.5°	8.2	8.2	8.2	8.2	8.2
65°	7.0	7.0	7.0	7.0	7.0
67.5°	7.0	7.0	7.0	7.0	7.0
70°	5.8	5.8	5.8	5.8	5.8
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.5	3.5	3.5	3.5	4.7
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.2	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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