

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: P743919

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743919
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-EU4DR1515309040-4LBS1H
Description: 4 INCH ROUND SHALLOW 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: 2126.7 lumens
Efficiency: N/A
Efficacy: 92.1 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



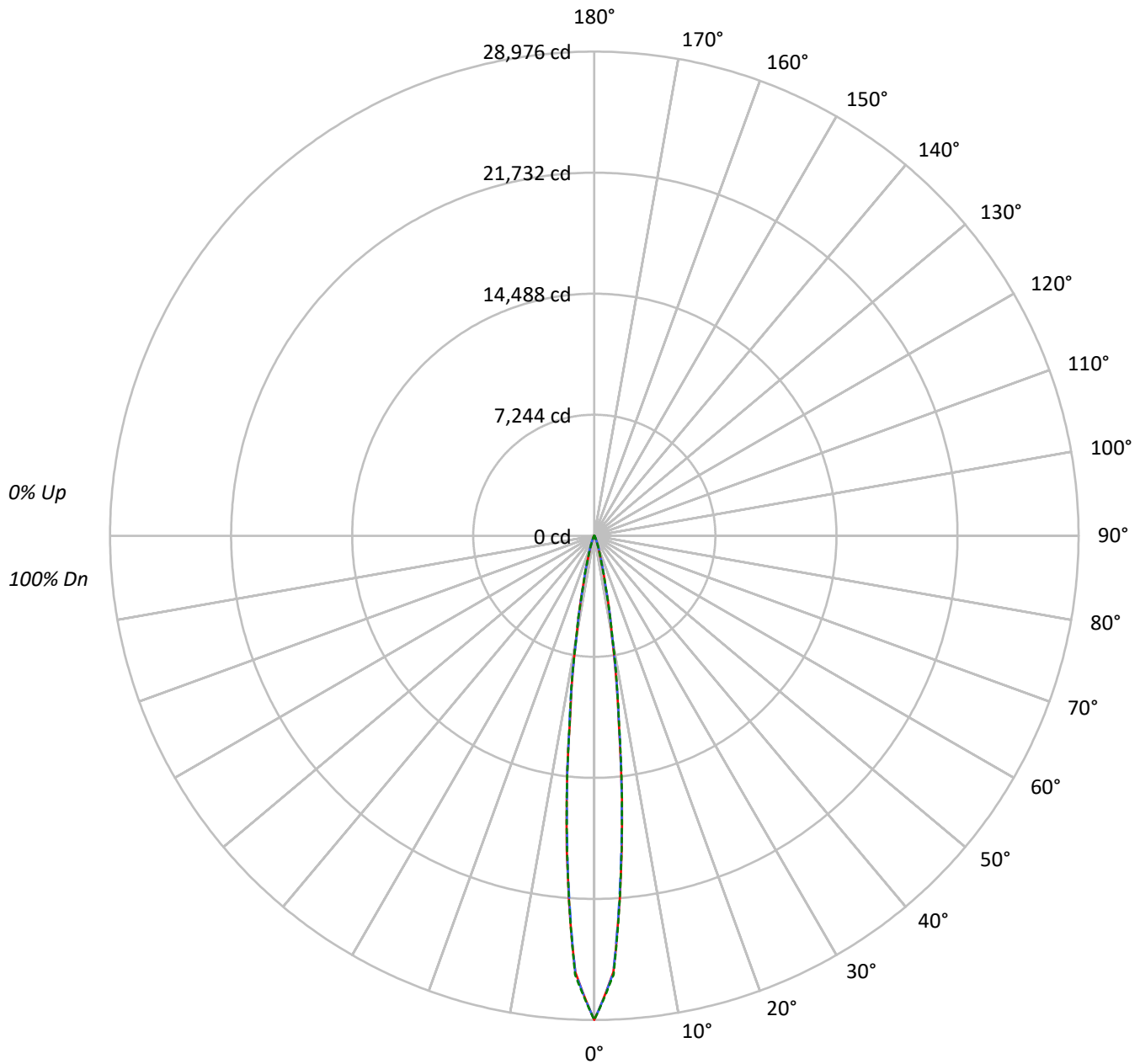
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	116	114	112	111	113	112	110	109		108	107	106		104	103	103		101	100	100
2	113	110	107	105	111	108	106	104		105	103	102		102	101	100		100	98	98
3	110	106	103	101	108	105	102	100		103	100	99		100	99	97		98	97	96
4	108	103	100	98	106	102	99	97		100	98	96		99	97	95		97	95	94
5	106	101	98	95	104	100	97	95		98	96	94		97	95	93		96	94	92
6	104	99	95	93	102	98	95	93		97	94	92		96	93	92		95	93	91
7	102	97	94	91	101	96	93	91		95	93	91		94	92	90		93	91	90
8	100	95	92	90	99	95	92	90		94	91	89		93	91	89		92	90	89
9	99	93	90	88	98	93	90	88		92	90	88		92	89	88		91	89	88
10	97	92	89	87	96	92	89	87		91	89	87		91	88	87		90	88	86

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3260333	3260333	3260333
5°	1915928	1891121	1906081
10°	571817	575820	584637
15°	142237	145007	140526
20°	42556	49282	43456
25°	15004	19109	15191
30°	5511	7256	5601
35°	2760	3115	2672
40°	1740	1917	1740
45°	1288	1372	1288
50°	1022	1022	1022
55°	856	856	856
60°	688	688	688
65°	528	528	528
70°	446	446	446
75°	280	280	370
80°	197	197	197
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1372 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.3	64.9
10°-20°	567.3	26.7
20°-30°	112.7	5.3
30°-40°	28.1	1.3
40°-50°	14.8	0.7
50°-60°	11.0	0.5
60°-70°	7.8	0.4
70°-80°	4.4	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°	2059.3	96.8
0°-40°	2087.4	98.2
0°-60°	2113.2	99.4
0°-90°	2126.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28976	28976	28976	28976	28976	
5°	18852	18658	18608	18737	18755	1377
15°	1638	1668	1670	1640	1618	561
25°	193	218	245	217	195	101
35°	38	40	43	40	37	26
45°	18	18	20	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
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°	28975.6	28975.6	28975.6	28975.6	28975.6
2.5°	26137.2	26159.3	26167.9	26193.6	26289.3
5°	18852.2	18658.4	18608.1	18736.9	18755.3
7.5°	11167.3	11206.6	11350.1	11382.0	11266.7
10°	6128.3	6178.6	6171.2	6215.4	6265.7
12.5°	3134.1	3094.8	3082.5	3132.8	3062.9
15°	1637.6	1668.2	1669.5	1640.0	1617.9
17.5°	880.7	916.3	975.2	927.3	853.7
20°	520.1	552.0	602.3	563.0	531.1
22.5°	321.4	347.1	382.7	352.0	326.3
25°	192.6	218.3	245.3	217.1	195.0
27.5°	114.1	136.2	153.3	134.9	112.9
30°	73.6	85.9	96.9	84.6	74.8
32.5°	51.5	56.4	61.3	56.4	51.5
35°	38.0	40.5	42.9	40.5	36.8
37.5°	29.4	31.9	33.1	30.7	28.2
40°	24.5	25.8	27.0	25.8	24.5
42.5°	20.9	22.1	22.1	22.1	20.9
45°	18.4	18.4	19.6	18.4	18.4
47.5°	15.9	15.9	17.2	15.9	15.9
50°	14.7	14.7	14.7	14.7	14.7
52.5°	13.5	13.5	13.5	13.5	13.5
55°	12.3	12.3	12.3	12.3	12.3
57.5°	11.0	11.0	11.0	11.0	11.0
60°	9.8	9.8	9.8	9.8	9.8
62.5°	8.6	8.6	8.6	8.6	8.6
65°	7.4	7.4	7.4	7.4	7.4
67.5°	7.4	7.4	7.4	7.4	7.4
70°	6.1	6.1	6.1	6.1	6.1
72.5°	4.9	4.9	4.9	4.9	4.9
75°	3.7	3.7	3.7	3.7	4.9
77.5°	3.7	3.7	3.7	3.7	3.7
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)