

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: P743861

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743861
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-EU4DR1515309024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1530.2 lumens
Efficiency: N/A
Efficacy: 66.2 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

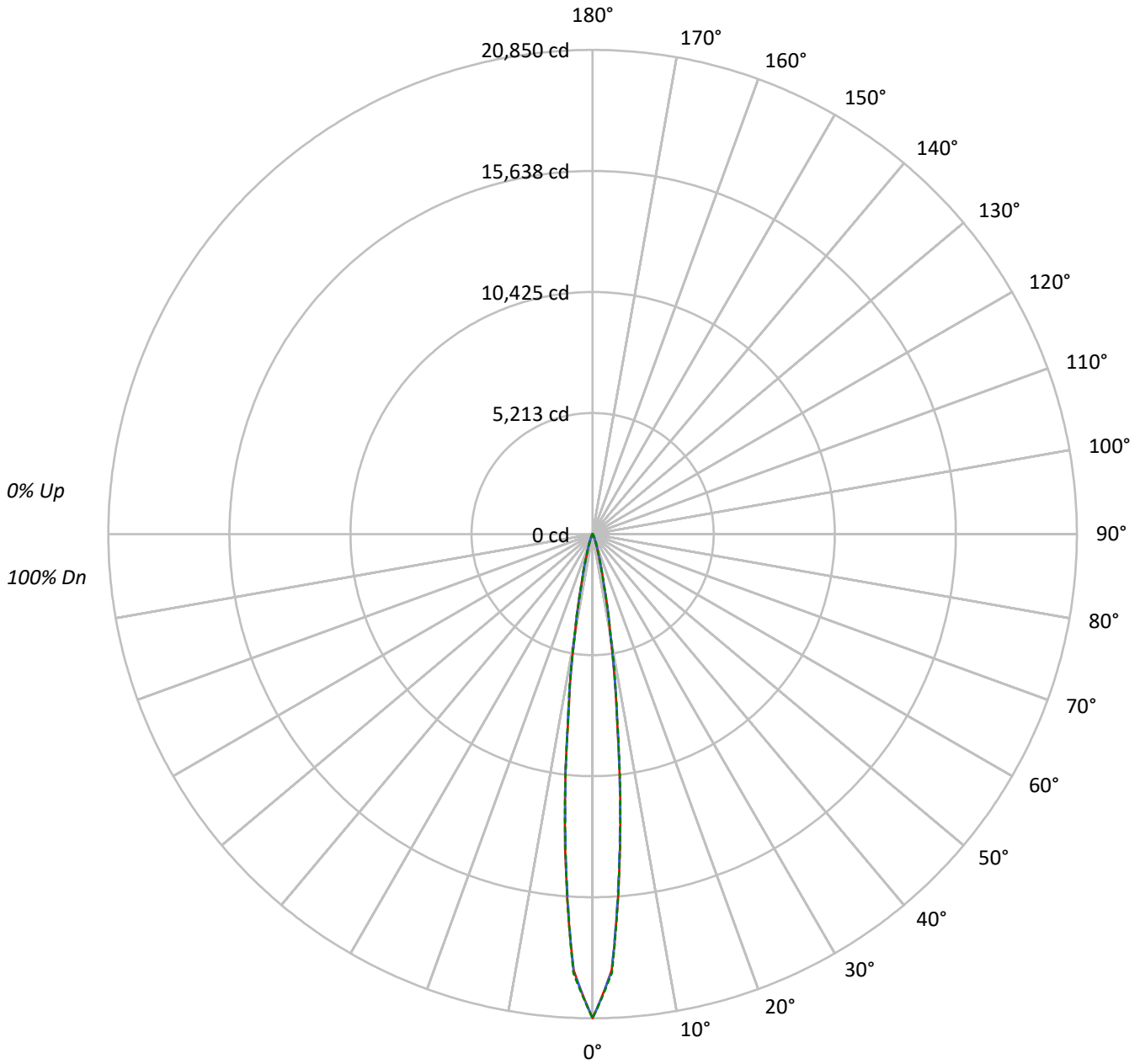


Downlight



TEST NUMBER: P743861
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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°	2345985	2345985	2345985
5°	1378606	1360760	1371523
10°	411449	414332	420677
15°	102343	104341	101119
20°	30618	35462	31273
25°	10797	13749	10929
30°	3969	5219	4029
35°	1990	2244	1924
40°	1257	1378	1257
45°	924	987	924
50°	737	737	737
55°	613	613	613
60°	498	498	498
65°	378	378	378
70°	322	322	322
75°	197	197	265
80°	142	142	142
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 987 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.5	64.9
10°-20°	408.2	26.7
20°-30°	81.1	5.3
30°-40°	20.2	1.3
40°-50°	10.6	0.7
50°-60°	7.9	0.5
60°-70°	5.6	0.4
70°-80°	3.1	0.2
80°-90°	1.0	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°	1481.8	96.8
0°-40°	1502.0	98.2
0°-60°	1520.5	99.4
0°-90°	1530.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20850	20850	20850	20850	20850	
5°	13565	13426	13390	13482	13495	991
15°	1178	1200	1201	1180	1164	404
25°	139	157	176	156	140	73
35°	27	29	31	29	26	19
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	6
75°	3	3	3	3	4	3
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°	20849.5	20849.5	20849.5	20849.5	20849.5
2.5°	18807.0	18822.9	18829.1	18847.7	18916.5
5°	13565.1	13425.7	13389.5	13482.2	13495.4
7.5°	8035.5	8063.7	8167.0	8189.9	8106.9
10°	4409.6	4445.8	4440.5	4472.3	4508.5
12.5°	2255.1	2226.9	2218.0	2254.2	2203.9
15°	1178.3	1200.4	1201.3	1180.1	1164.2
17.5°	633.7	659.3	701.7	667.3	614.3
20°	374.2	397.2	433.4	405.1	382.2
22.5°	231.2	249.8	275.4	253.3	234.8
25°	138.6	157.1	176.5	156.2	140.3
27.5°	82.1	98.0	110.3	97.1	81.2
30°	53.0	61.8	69.7	60.9	53.8
32.5°	37.1	40.6	44.1	40.6	37.1
35°	27.4	29.1	30.9	29.1	26.5
37.5°	21.2	22.9	23.8	22.1	20.3
40°	17.7	18.5	19.4	18.5	17.7
42.5°	15.0	15.9	15.9	15.9	15.0
45°	13.2	13.2	14.1	13.2	13.2
47.5°	11.5	11.5	12.4	11.5	11.5
50°	10.6	10.6	10.6	10.6	10.6
52.5°	9.7	9.7	9.7	9.7	9.7
55°	8.8	8.8	8.8	8.8	8.8
57.5°	7.9	7.9	7.9	7.9	7.9
60°	7.1	7.1	7.1	7.1	7.1
62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.3	5.3	5.3	5.3	5.3
67.5°	5.3	5.3	5.3	5.3	5.3
70°	4.4	4.4	4.4	4.4	4.4
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.6	2.6	2.6	2.6	3.5
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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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