

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: P743898

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743898
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-EU4DR1515309035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1800.2 lumens
Efficiency: N/A
Efficacy: 77.9 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

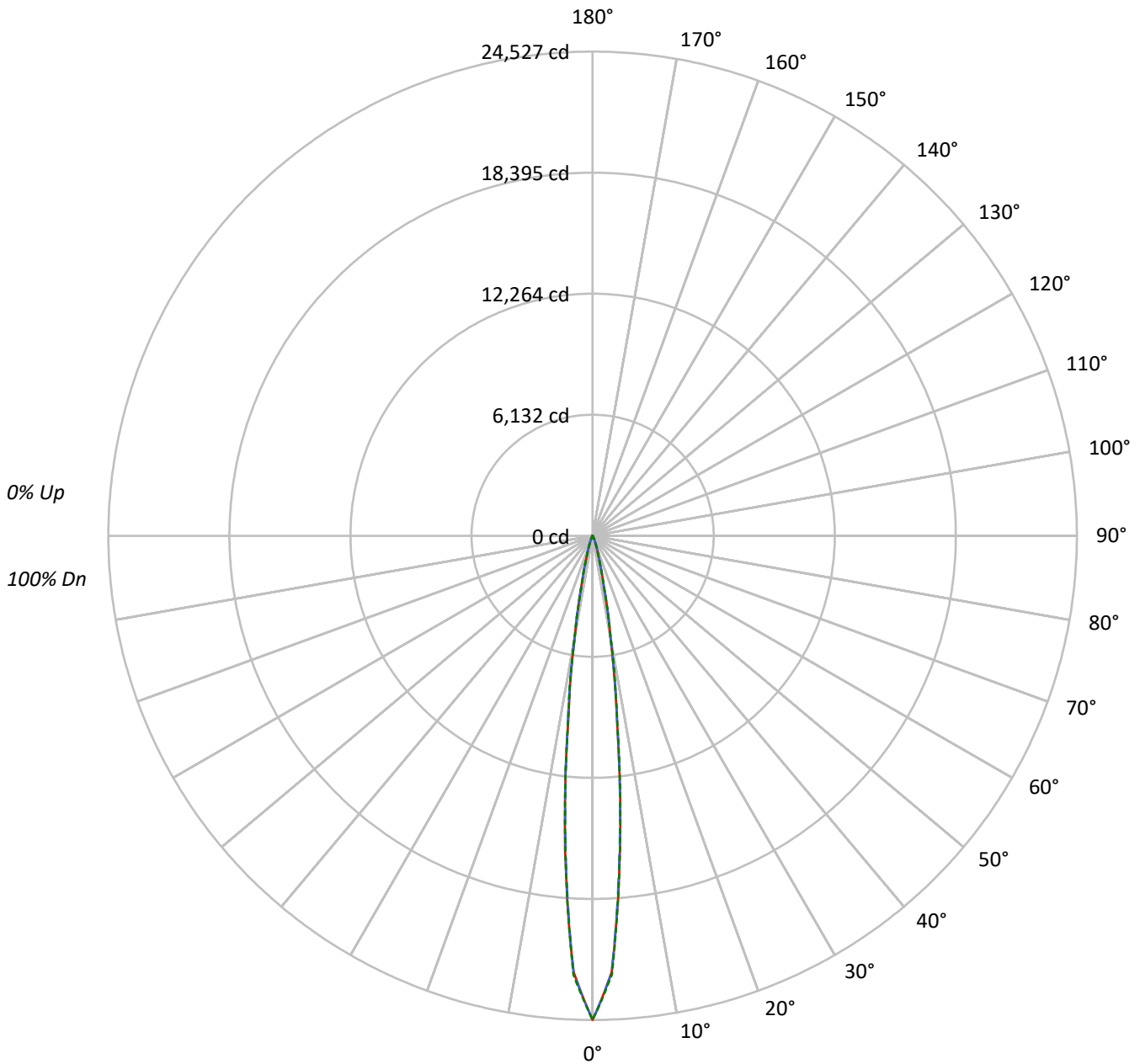


Downlight



TEST NUMBER: P743898
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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	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°	2759777	2759777	2759777
5°	1621774	1600777	1613440
10°	484024	487420	494875
15°	120392	122737	118950
20°	36018	41713	36788
25°	12698	16180	12861
30°	4665	6140	4740
35°	2338	2636	2258
40°	1477	1619	1477
45°	1092	1162	1092
50°	869	869	869
55°	724	724	724
60°	583	583	583
65°	442	442	442
70°	380	380	380
75°	234	234	317
80°	166	166	166
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1167.5	64.9
10°-20°	480.2	26.7
20°-30°	95.4	5.3
30°-40°	23.8	1.3
40°-50°	12.5	0.7
50°-60°	9.3	0.5
60°-70°	6.5	0.4
70°-80°	3.7	0.2
80°-90°	1.1	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°	1743.2	96.8
0°-40°	1767.0	98.2
0°-60°	1788.8	99.4
0°-90°	1800.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24527	24527	24527	24527	24527	
5°	15958	15794	15751	15860	15876	1165
15°	1386	1412	1413	1388	1370	475
25°	163	185	208	184	165	86
35°	32	34	36	34	31	22
45°	16	16	17	16	16	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	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°	24527.0	24527.0	24527.0	24527.0	24527.0
2.5°	22124.4	22143.1	22150.3	22172.1	22253.1
5°	15957.8	15793.8	15751.2	15860.2	15875.8
7.5°	9452.8	9486.0	9607.5	9634.5	9536.9
10°	5187.4	5230.0	5223.8	5261.1	5303.7
12.5°	2652.9	2619.7	2609.3	2651.9	2592.7
15°	1386.1	1412.1	1413.1	1388.2	1369.5
17.5°	745.5	775.6	825.5	785.0	722.7
20°	440.2	467.2	509.8	476.6	449.6
22.5°	272.0	293.8	324.0	298.0	276.2
25°	163.0	184.8	207.7	183.8	165.1
27.5°	96.6	115.3	129.8	114.2	95.5
30°	62.3	72.7	82.0	71.6	63.3
32.5°	43.6	47.8	51.9	47.8	43.6
35°	32.2	34.3	36.3	34.3	31.1
37.5°	24.9	27.0	28.0	26.0	23.9
40°	20.8	21.8	22.8	21.8	20.8
42.5°	17.7	18.7	18.7	18.7	17.7
45°	15.6	15.6	16.6	15.6	15.6
47.5°	13.5	13.5	14.5	13.5	13.5
50°	12.5	12.5	12.5	12.5	12.5
52.5°	11.4	11.4	11.4	11.4	11.4
55°	10.4	10.4	10.4	10.4	10.4
57.5°	9.3	9.3	9.3	9.3	9.3
60°	8.3	8.3	8.3	8.3	8.3
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	6.2	6.2	6.2	6.2	6.2
70°	5.2	5.2	5.2	5.2	5.2
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.1	3.1	3.1	3.1	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
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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