

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: P743922

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743922
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-EU4DR1515309040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746.2 lumens
Efficiency: N/A
Efficacy: 75.6 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



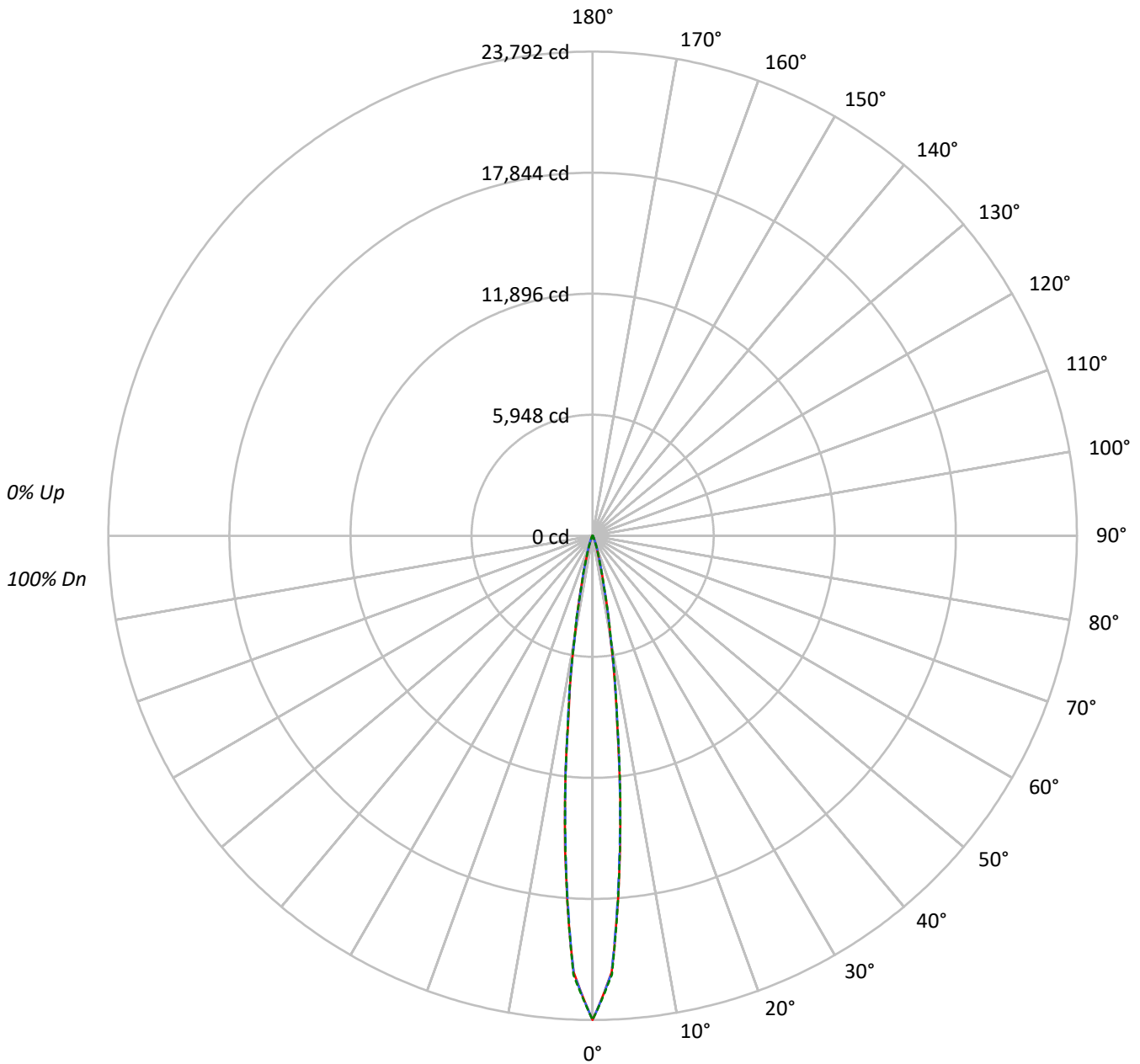
Downlight



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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°	2677086	2677086	2677086
5°	1573185	1552808	1565095
10°	469524	472808	480049
15°	116788	119063	115389
20°	34947	40461	35683
25°	12316	15689	12472
30°	4523	5961	4598
35°	2266	2563	2193
40°	1427	1577	1427
45°	1057	1127	1057
50°	841	841	841
55°	703	703	703
60°	569	569	569
65°	428	428	428
70°	366	366	366
75°	227	227	302
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1127 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.6	64.9
10°-20°	465.8	26.7
20°-30°	92.5	5.3
30°-40°	23.1	1.3
40°-50°	12.1	0.7
50°-60°	9.0	0.5
60°-70°	6.3	0.4
70°-80°	3.6	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°	1690.9	96.8
0°-40°	1714.0	98.2
0°-60°	1735.2	99.4
0°-90°	1746.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23792	23792	23792	23792	23792	
5°	15480	15320	15279	15385	15400	1130
15°	1345	1370	1371	1347	1328	461
25°	158	179	201	178	160	83
35°	31	33	35	33	30	21
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
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°	23792.1	23792.1	23792.1	23792.1	23792.1
2.5°	21461.4	21479.6	21486.6	21507.8	21586.3
5°	15479.7	15320.5	15279.2	15385.0	15400.1
7.5°	9169.6	9201.8	9319.6	9345.8	9251.1
10°	5032.0	5073.3	5067.2	5103.5	5144.8
12.5°	2573.4	2541.2	2531.1	2572.4	2515.0
15°	1344.6	1369.8	1370.8	1346.6	1328.5
17.5°	723.2	752.4	800.7	761.4	701.0
20°	427.1	453.2	494.5	462.3	436.1
22.5°	263.9	285.0	314.2	289.1	267.9
25°	158.1	179.3	201.4	178.3	160.1
27.5°	93.7	111.8	125.9	110.8	92.7
30°	60.4	70.5	79.6	69.5	61.4
32.5°	42.3	46.3	50.4	46.3	42.3
35°	31.2	33.2	35.3	33.2	30.2
37.5°	24.2	26.2	27.2	25.2	23.2
40°	20.1	21.2	22.2	21.2	20.1
42.5°	17.1	18.1	18.1	18.1	17.1
45°	15.1	15.1	16.1	15.1	15.1
47.5°	13.1	13.1	14.1	13.1	13.1
50°	12.1	12.1	12.1	12.1	12.1
52.5°	11.1	11.1	11.1	11.1	11.1
55°	10.1	10.1	10.1	10.1	10.1
57.5°	9.1	9.1	9.1	9.1	9.1
60°	8.1	8.1	8.1	8.1	8.1
62.5°	7.1	7.1	7.1	7.1	7.1
65°	6.0	6.0	6.0	6.0	6.0
67.5°	6.0	6.0	6.0	6.0	6.0
70°	5.0	5.0	5.0	5.0	5.0
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.0	3.0	3.0	3.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
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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