

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: P761949

Luminaire Tested: LD6D20D010-EU6DR1515309030-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P761949
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: LD6D20D010-EU6DR1515309030-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.4 lumens
Efficiency: N/A
Efficacy: 76.8 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

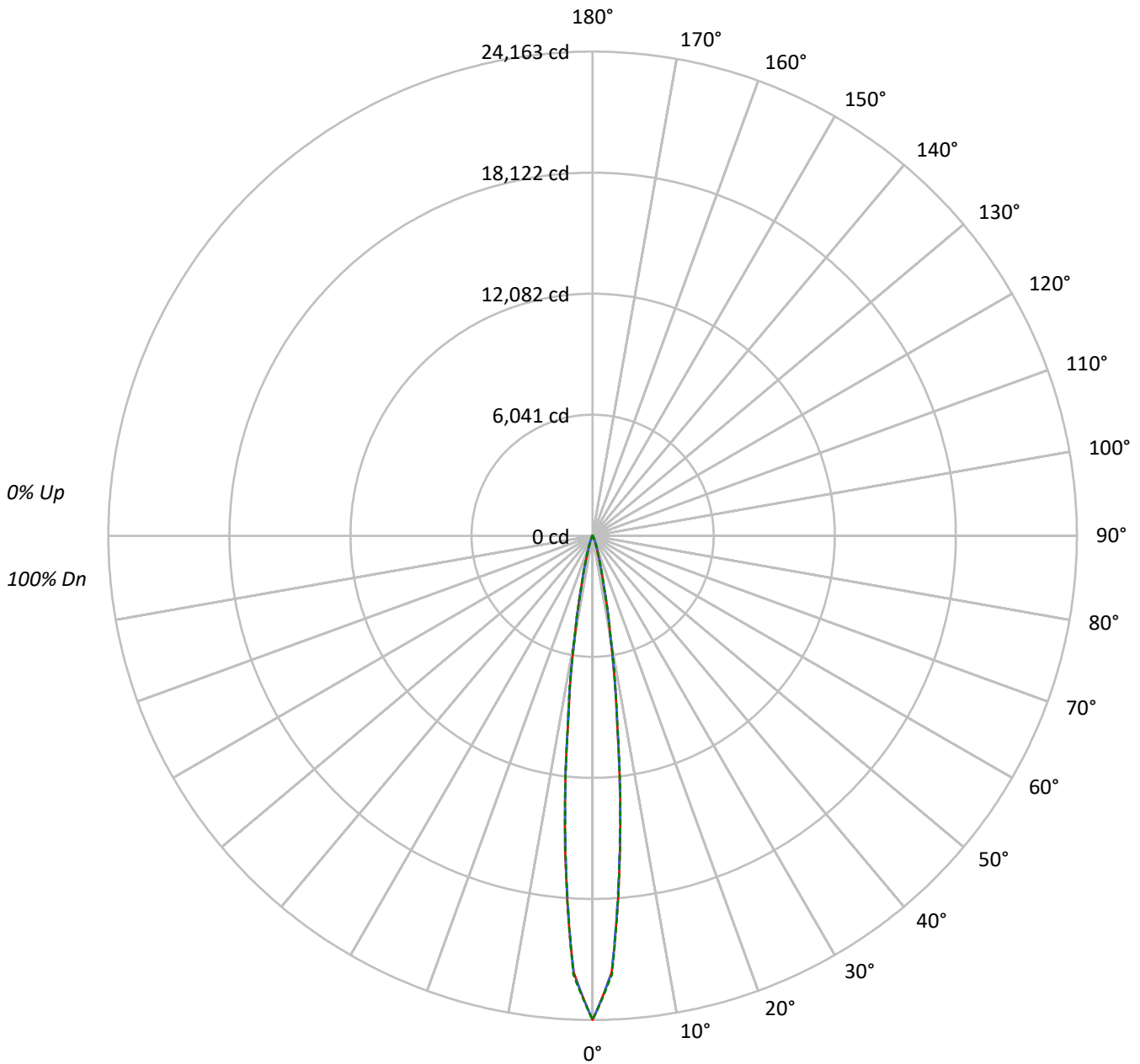


Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2718797	2718797	2718797
5°	1597698	1577006	1589486
10°	476839	480180	487532
15°	118612	120922	117187
20°	35487	41091	36239
25°	12511	15938	12667
30°	4598	6050	4673
35°	2302	2600	2229
40°	1456	1598	1456
45°	1071	1148	1071
50°	855	855	855
55°	710	710	710
60°	576	576	576
65°	435	435	435
70°	373	373	373
75°	234	234	310
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1148 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.2	64.9
10°-20°	473.1	26.7
20°-30°	94.0	5.3
30°-40°	23.5	1.3
40°-50°	12.3	0.7
50°-60°	9.1	0.5
60°-70°	6.4	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°	1717.3	96.8
0°-40°	1740.7	98.2
0°-60°	1762.2	99.4
0°-90°	1773.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24163	24163	24163	24163	24163	
5°	15721	15559	15517	15625	15640	1148
15°	1366	1391	1392	1368	1349	468
25°	161	182	205	181	163	84
35°	32	34	36	34	31	22
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°	24162.8	24162.8	24162.8	24162.8	24162.8
2.5°	21795.9	21814.3	21821.4	21842.9	21922.7
5°	15720.9	15559.3	15517.3	15624.7	15640.1
7.5°	9312.4	9345.2	9464.9	9491.4	9395.3
10°	5110.4	5152.3	5146.2	5183.0	5225.0
12.5°	2613.5	2580.8	2570.5	2612.5	2554.2
15°	1365.6	1391.1	1392.2	1367.6	1349.2
17.5°	734.4	764.1	813.2	773.3	711.9
20°	433.7	460.3	502.2	469.5	442.9
22.5°	268.0	289.5	319.1	293.6	272.1
25°	160.6	182.1	204.6	181.1	162.6
27.5°	95.1	113.5	127.9	112.5	94.1
30°	61.4	71.6	80.8	70.6	62.4
32.5°	43.0	47.1	51.1	47.1	43.0
35°	31.7	33.8	35.8	33.8	30.7
37.5°	24.5	26.6	27.6	25.6	23.5
40°	20.5	21.5	22.5	21.5	20.5
42.5°	17.4	18.4	18.4	18.4	17.4
45°	15.3	15.3	16.4	15.3	15.3
47.5°	13.3	13.3	14.3	13.3	13.3
50°	12.3	12.3	12.3	12.3	12.3
52.5°	11.3	11.3	11.3	11.3	11.3
55°	10.2	10.2	10.2	10.2	10.2
57.5°	9.2	9.2	9.2	9.2	9.2
60°	8.2	8.2	8.2	8.2	8.2
62.5°	7.2	7.2	7.2	7.2	7.2
65°	6.1	6.1	6.1	6.1	6.1
67.5°	6.1	6.1	6.1	6.1	6.1
70°	5.1	5.1	5.1	5.1	5.1
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.1	3.1	3.1	3.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
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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