

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: P761988

Luminaire Tested: LD6D20D010-EU6DR1515309050-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P761988
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-EU6DR1515309050-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1901.3 lumens
Efficiency: N/A
Efficacy: 82.3 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

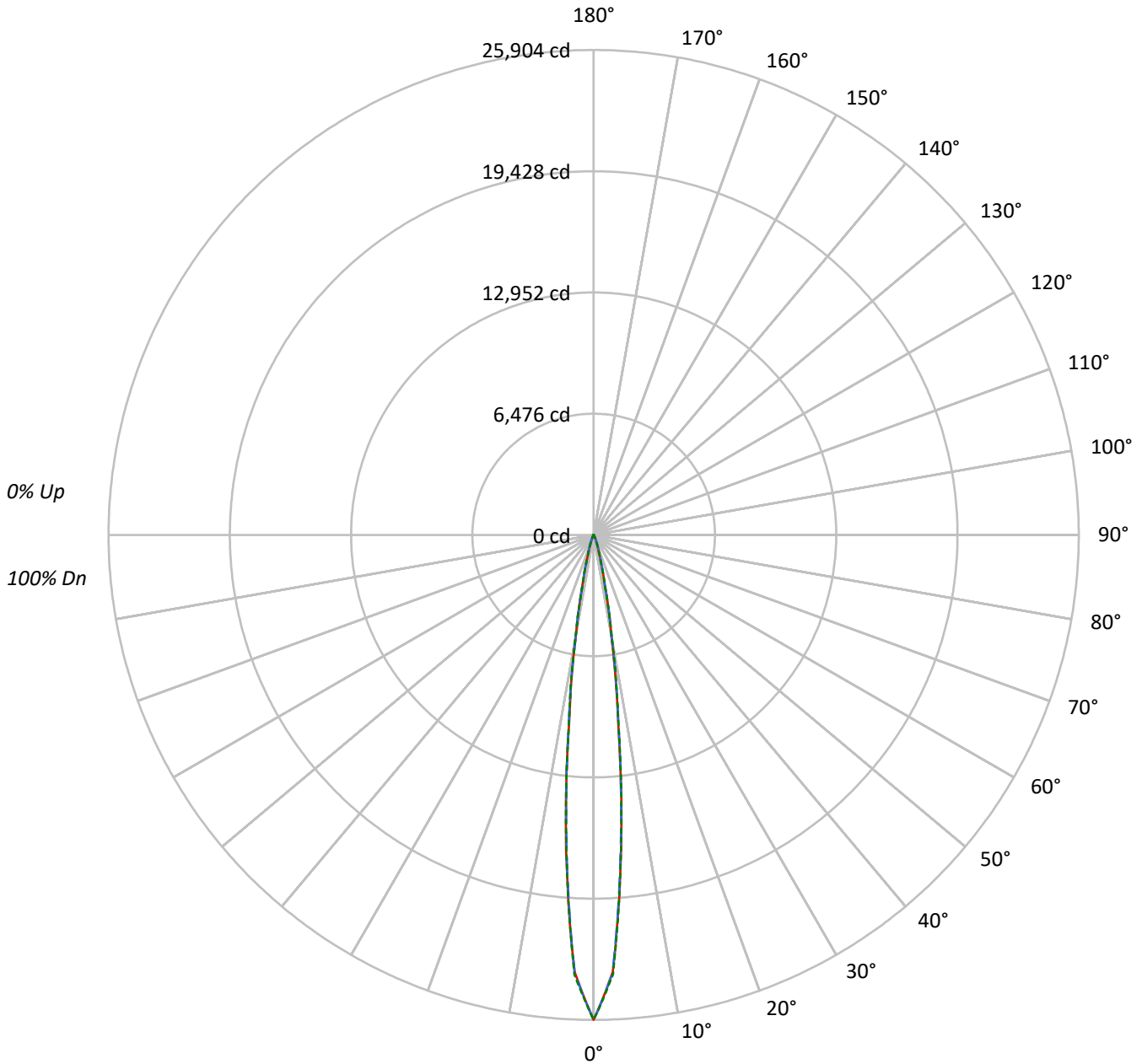


Downlight



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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	87	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°	2914751	2914751	2914751
5°	1712843	1690668	1704042
10°	511204	514787	522662
15°	127158	129634	125630
20°	38048	44053	38849
25°	13415	17084	13586
30°	4927	6485	5010
35°	2469	2789	2389
40°	1555	1711	1555
45°	1148	1225	1148
50°	918	918	918
55°	766	766	766
60°	618	618	618
65°	471	471	471
70°	402	402	402
75°	249	249	333
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1233.1	64.9
10°-20°	507.2	26.7
20°-30°	100.7	5.3
30°-40°	25.1	1.3
40°-50°	13.2	0.7
50°-60°	9.8	0.5
60°-70°	6.9	0.4
70°-80°	4.0	0.2
80°-90°	1.2	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°	1841.0	96.8
0°-40°	1866.2	98.2
0°-60°	1889.2	99.4
0°-90°	1901.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1901.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25904	25904	25904	25904	25904	
5°	16854	16681	16636	16751	16767	1231
15°	1464	1491	1492	1466	1446	502
25°	172	195	219	194	174	90
35°	34	36	38	36	33	23
45°	16	16	18	16	16	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	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°	25904.3	25904.3	25904.3	25904.3	25904.3
2.5°	23366.7	23386.5	23394.1	23417.2	23502.7
5°	16853.9	16680.7	16635.7	16750.8	16767.3
7.5°	9983.6	10018.7	10147.0	10175.5	10072.4
10°	5478.7	5523.7	5517.1	5556.6	5601.5
12.5°	2801.9	2766.8	2755.8	2800.8	2738.3
15°	1464.0	1491.4	1492.5	1466.2	1446.4
17.5°	787.4	819.2	871.8	829.0	763.2
20°	465.0	493.5	538.4	503.3	474.8
22.5°	287.3	310.3	342.1	314.7	291.7
25°	172.2	195.2	219.3	194.1	174.4
27.5°	102.0	121.7	137.1	120.6	100.9
30°	65.8	76.8	86.6	75.7	66.9
32.5°	46.1	50.4	54.8	50.4	46.1
35°	34.0	36.2	38.4	36.2	32.9
37.5°	26.3	28.5	29.6	27.4	25.2
40°	21.9	23.0	24.1	23.0	21.9
42.5°	18.6	19.7	19.7	19.7	18.6
45°	16.4	16.4	17.5	16.4	16.4
47.5°	14.3	14.3	15.4	14.3	14.3
50°	13.2	13.2	13.2	13.2	13.2
52.5°	12.1	12.1	12.1	12.1	12.1
55°	11.0	11.0	11.0	11.0	11.0
57.5°	9.9	9.9	9.9	9.9	9.9
60°	8.8	8.8	8.8	8.8	8.8
62.5°	7.7	7.7	7.7	7.7	7.7
65°	6.6	6.6	6.6	6.6	6.6
67.5°	6.6	6.6	6.6	6.6	6.6
70°	5.5	5.5	5.5	5.5	5.5
72.5°	4.4	4.4	4.4	4.4	4.4
75°	3.3	3.3	3.3	3.3	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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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