

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: P790046

Luminaire Tested: LER6D20D010-EC6DR1515309027-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790046
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: LER6D20D010-EC6DR1515309027-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.7 lumens
Efficiency: N/A
Efficacy: 81.2 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 (A_{in}): 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

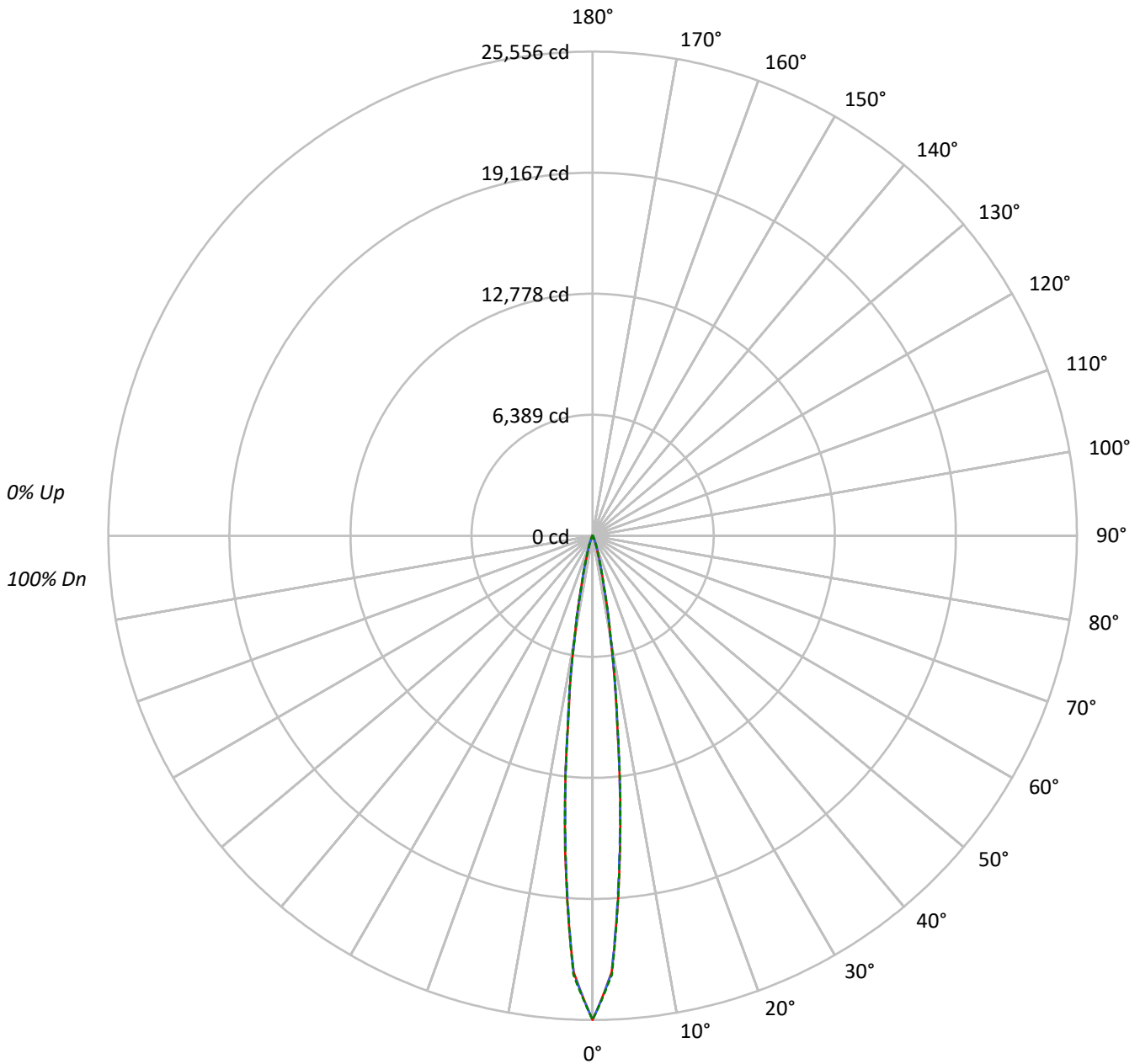


Downlight

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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°	2875594	2875594	2875594
5°	1689835	1667954	1681145
10°	504337	507873	515646
15°	125447	127888	123945
20°	37532	43464	38334
25°	13235	16858	13399
30°	4860	6402	4942
35°	2433	2752	2360
40°	1534	1690	1534
45°	1134	1211	1134
50°	904	904	904
55°	752	752	752
60°	611	611	611
65°	464	464	464
70°	395	395	395
75°	242	242	325
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1211 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.5	64.9
10°-20°	500.4	26.7
20°-30°	99.4	5.3
30°-40°	24.8	1.3
40°-50°	13.0	0.7
50°-60°	9.7	0.5
60°-70°	6.8	0.4
70°-80°	3.9	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°	1816.3	96.8
0°-40°	1841.1	98.2
0°-60°	1863.8	99.4
0°-90°	1875.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25556	25556	25556	25556	25556	
5°	16628	16457	16412	16526	16542	1214
15°	1444	1471	1472	1446	1427	495
25°	170	193	216	192	172	89
35°	34	36	38	36	32	23
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
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°	25556.3	25556.3	25556.3	25556.3	25556.3
2.5°	23052.8	23072.3	23079.9	23102.6	23187.0
5°	16627.5	16456.6	16412.2	16525.8	16542.0
7.5°	9849.5	9884.1	10010.7	10038.8	9937.1
10°	5405.1	5449.5	5443.0	5481.9	5526.3
12.5°	2764.2	2729.6	2718.8	2763.1	2701.5
15°	1444.3	1471.4	1472.4	1446.5	1427.0
17.5°	776.8	808.2	860.1	817.9	753.0
20°	458.7	486.8	531.2	496.6	468.5
22.5°	283.5	306.2	337.5	310.5	287.8
25°	169.9	192.6	216.4	191.5	172.0
27.5°	100.6	120.1	135.2	119.0	99.5
30°	64.9	75.7	85.5	74.7	66.0
32.5°	45.4	49.8	54.1	49.8	45.4
35°	33.5	35.7	37.9	35.7	32.5
37.5°	26.0	28.1	29.2	27.0	24.9
40°	21.6	22.7	23.8	22.7	21.6
42.5°	18.4	19.5	19.5	19.5	18.4
45°	16.2	16.2	17.3	16.2	16.2
47.5°	14.1	14.1	15.1	14.1	14.1
50°	13.0	13.0	13.0	13.0	13.0
52.5°	11.9	11.9	11.9	11.9	11.9
55°	10.8	10.8	10.8	10.8	10.8
57.5°	9.7	9.7	9.7	9.7	9.7
60°	8.7	8.7	8.7	8.7	8.7
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.5	6.5	6.5	6.5	6.5
67.5°	6.5	6.5	6.5	6.5	6.5
70°	5.4	5.4	5.4	5.4	5.4
72.5°	4.3	4.3	4.3	4.3	4.3
75°	3.2	3.2	3.2	3.2	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
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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