

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: P790181

Luminaire Tested: LER6D20D010-EC6DR3020359024-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D20D010-EC6DR3020359024-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3151.8 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
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

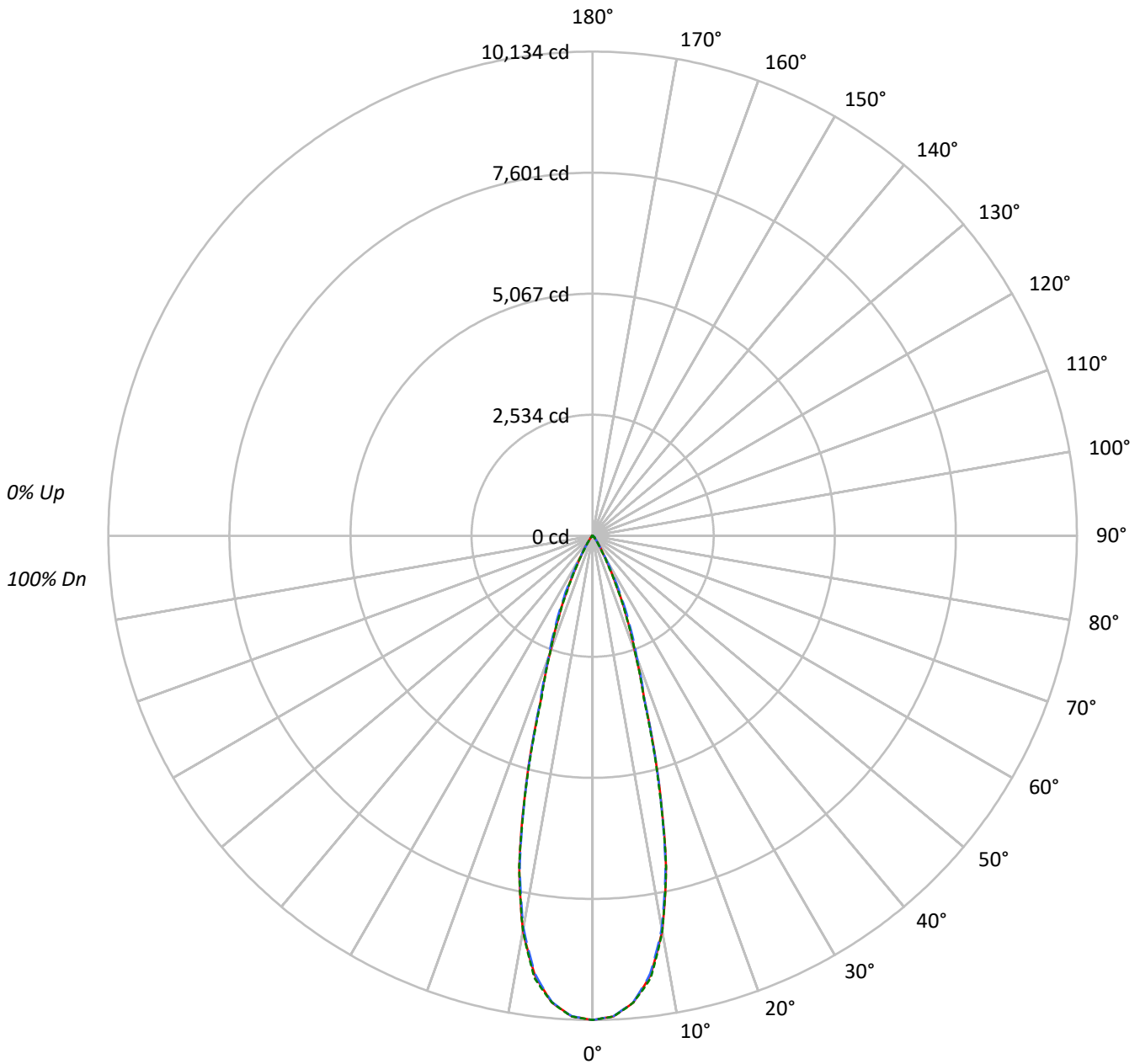


Downlight

TEST NUMBER: P790181

CATALOG NUMBER: LER6D20D010-EC6DR3020359024-6LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P790181

CATALOG NUMBER: LER6D20D010-EC6DR3020359024-6LBS1LI

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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	775721	775721	775721
5°	753452	752568	753490
10°	652603	648002	652448
15°	425791	423501	421378
20°	211728	219670	211443
25°	106651	120266	104464
30°	42699	46526	37201
35°	19810	18969	15904
40°	8553	9492	8054
45°	6029	7491	6084
50°	2072	5454	2191
55°	1201	2255	1268
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7491 cd/sqm



TEST NUMBER: P790181

CATALOG NUMBER: LER6D20D010-EC6DR3020359024-6LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.2	28.3
10°-20°	1435.2	45.5
20°-30°	620.2	19.7
30°-40°	141.4	4.5
40°-50°	48.5	1.5
50°-60°	11.9	0.4
60°-70°	3.1	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	2946.6	93.5
0°-40°	3087.9	98.0
0°-60°	3148.4	99.9
0°-90°	3151.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3151.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10134	10134	10134	10134	10134	
5°	9806	9796	9794	9815	9806	892
15°	5373	5308	5344	5327	5318	1439
25°	1263	1311	1424	1277	1237	604
35°	212	216	203	202	170	144
45°	56	69	69	69	56	40
55°	9	10	17	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P790181

CATALOG NUMBER: LER6D20D010-EC6DR3020359024-6LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10134.4	10134.4	10134.4	10134.4	10134.4
2.5°	10067.2	10060.2	10064.2	10069.2	10071.2
5°	9806.0	9796.5	9794.5	9814.9	9806.5
7.5°	9279.1	9265.6	9245.2	9291.5	9334.8
10°	8396.4	8381.5	8337.2	8359.1	8394.4
12.5°	7093.3	7045.0	7044.0	7113.7	7104.2
15°	5373.2	5308.5	5344.3	5326.9	5317.5
17.5°	3613.3	3588.4	3636.2	3621.8	3559.6
20°	2599.3	2605.7	2696.8	2651.0	2595.8
22.5°	1896.7	1920.1	2028.1	1910.1	1866.9
25°	1262.8	1310.6	1424.0	1277.2	1236.9
27.5°	776.7	798.6	913.5	766.7	744.9
30°	483.1	472.2	526.4	451.8	420.9
32.5°	316.9	303.0	320.4	287.6	262.7
35°	212.0	216.4	203.0	201.5	170.2
37.5°	132.4	152.3	134.3	143.3	109.5
40°	85.6	110.5	95.0	105.0	80.6
42.5°	70.2	85.1	78.1	83.1	71.6
45°	55.7	69.2	69.2	69.2	56.2
47.5°	30.8	46.3	59.2	47.3	32.8
50°	17.4	23.4	45.8	24.4	18.4
52.5°	11.9	13.4	31.3	13.9	12.4
55°	9.0	9.5	16.9	10.0	9.5
57.5°	7.0	7.5	9.0	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)