

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: P790214

Luminaire Tested: LER6D20D010-EC6DR3020359040-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790214  
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-EC6DR3020359040-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3548.0 lumens  
Efficiency: N/A  
Efficacy: 153.6 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<sub>in</sub>): 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

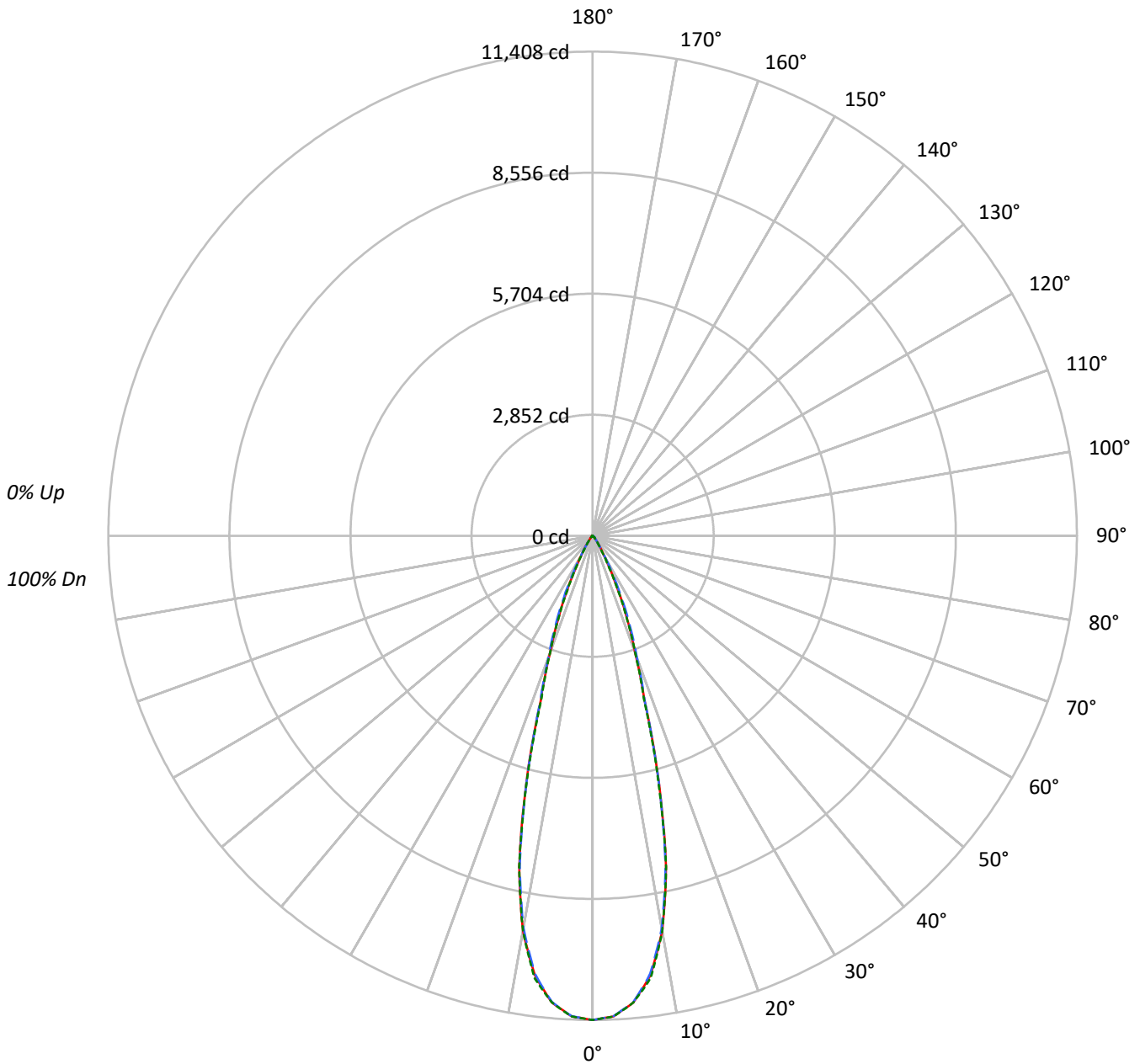


Downlight

TEST NUMBER: P790214

CATALOG NUMBER: LER6D20D010-EC6DR3020359040-6LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P790214

CATALOG NUMBER: LER6D20D010-EC6DR3020359040-6LBS1MW

**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°	873245	873245	873245
5°	848175	847184	848221
10°	734649	729465	734470
15°	479320	476745	474352
20°	238348	247283	238022
25°	120063	135392	117605
30°	48072	52377	41886
35°	22295	21352	17904
40°	9622	10691	9063
45°	6787	8433	6852
50°	2334	6133	2465
55°	1348	2536	1415
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8433 cd/sqm



TEST NUMBER: P790214

CATALOG NUMBER: LER6D20D010-EC6DR3020359040-6LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1003.2	28.3
10°-20°	1615.7	45.5
20°-30°	698.2	19.7
30°-40°	159.1	4.5
40°-50°	54.6	1.5
50°-60°	13.3	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3317.0	93.5
0°-40°	3476.2	98.0
0°-60°	3544.1	99.9
0°-90°	3548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11408	11408	11408	11408	11408	
5°	11039	11028	11026	11049	11039	1004
15°	6049	5976	6016	5997	5986	1620
25°	1422	1475	1603	1438	1392	680
35°	239	244	228	227	192	162
45°	63	78	78	78	63	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P790214

CATALOG NUMBER: LER6D20D010-EC6DR3020359040-6LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11408.5	11408.5	11408.5	11408.5	11408.5
2.5°	11332.9	11325.0	11329.5	11335.1	11337.3
5°	11038.8	11028.2	11025.9	11048.9	11039.4
7.5°	10445.6	10430.5	10407.5	10459.6	10508.4
10°	9452.0	9435.2	9385.3	9410.0	9449.7
12.5°	7985.0	7930.7	7929.6	8008.0	7997.4
15°	6048.7	5975.9	6016.2	5996.6	5986.0
17.5°	4067.6	4039.6	4093.3	4077.1	4007.1
20°	2926.1	2933.3	3035.8	2984.3	2922.1
22.5°	2135.2	2161.5	2283.0	2150.3	2101.6
25°	1421.6	1475.3	1603.1	1437.8	1392.5
27.5°	874.3	899.0	1028.4	863.1	838.5
30°	543.9	531.6	592.6	508.6	473.9
32.5°	356.8	341.1	360.7	323.7	295.7
35°	238.6	243.7	228.5	226.8	191.6
37.5°	149.0	171.4	151.2	161.3	123.2
40°	96.3	124.3	107.0	118.2	90.7
42.5°	79.0	95.8	87.9	93.5	80.7
45°	62.7	77.9	77.9	77.9	63.3
47.5°	34.7	52.1	66.7	53.2	37.0
50°	19.6	26.3	51.5	27.4	20.7
52.5°	13.4	15.1	35.3	15.7	14.0
55°	10.1	10.6	19.0	11.2	10.6
57.5°	7.8	8.4	10.1	8.4	7.8
60°	6.2	6.2	7.3	6.7	6.2
62.5°	4.5	4.5	5.0	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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)