

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: P792319

Luminaire Tested: LER6D40BD010-EC6DR3040509040-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792319  
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: LER6D40BD010-EC6DR3040509040-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3723.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 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): 35.2  
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

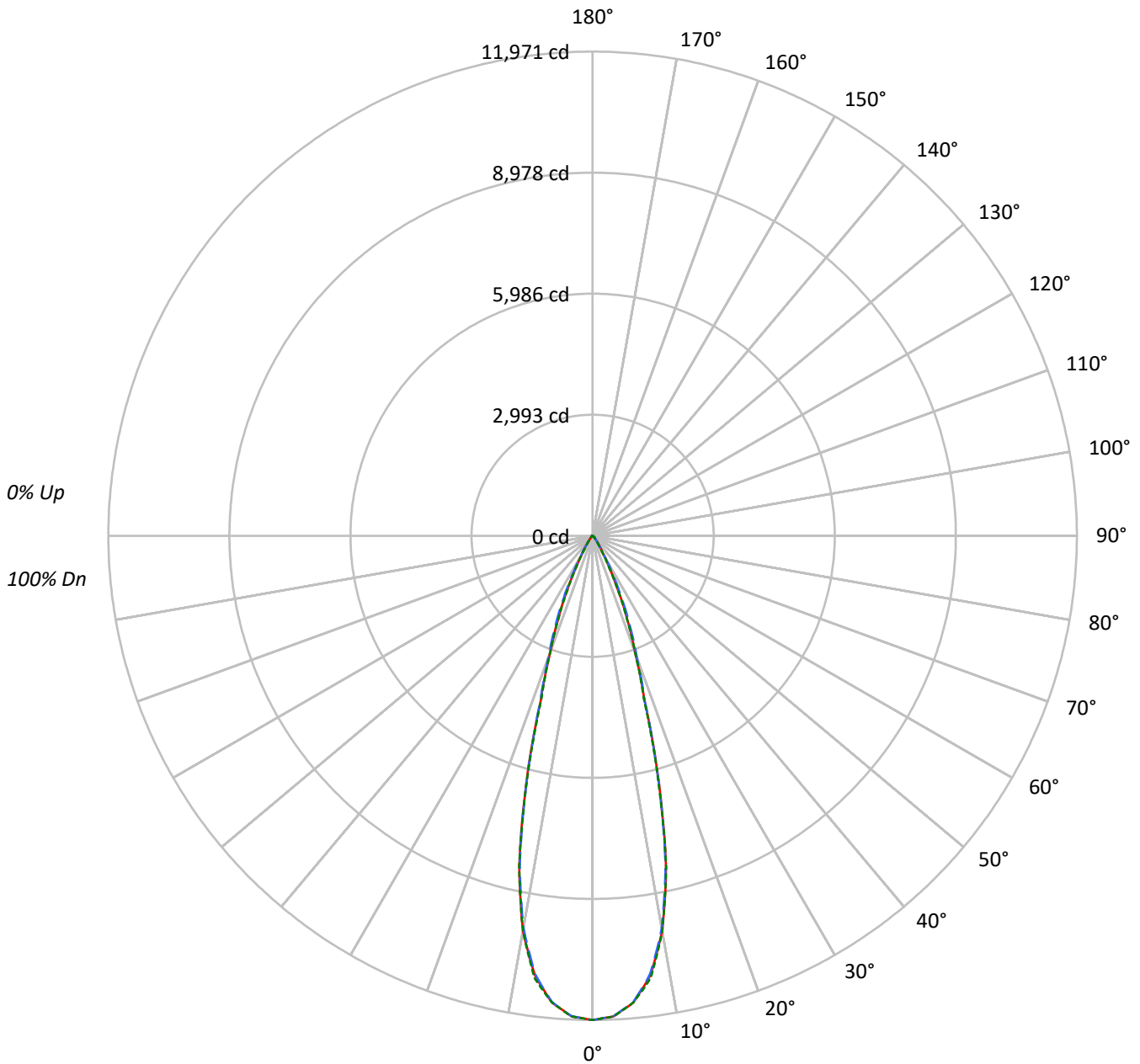


Downlight

TEST NUMBER: P792319

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P792319

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1B

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	916301	916301	916301
5°	889997	888959	890043
10°	770876	765436	770690
15°	502959	500257	497737
20°	250094	259477	249760
25°	125983	142064	123399
30°	50441	54958	43945
35°	23398	22407	18782
40°	10102	11221	9512
45°	7123	8844	7188
50°	2453	6442	2584
55°	1415	2669	1495
60°	995	1163	995
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8844 cd/sqm



TEST NUMBER: P792319

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1052.7	28.3
10°-20°	1695.3	45.5
20°-30°	732.6	19.7
30°-40°	167.0	4.5
40°-50°	57.3	1.5
50°-60°	14.0	0.4
60°-70°	3.6	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°	3480.6	93.5
0°-40°	3647.6	98.0
0°-60°	3718.9	99.9
0°-90°	3723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11971	11971	11971	11971	11971	
5°	11583	11572	11570	11594	11584	1054
15°	6347	6271	6313	6292	6281	1699
25°	1492	1548	1682	1509	1461	714
35°	250	256	240	238	201	170
45°	66	82	82	82	66	47
55°	11	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P792319

CATALOG NUMBER: LER6D40BD010-EC6DR3040509040-6LBDP1B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11971.0	11971.0	11971.0	11971.0	11971.0
2.5°	11891.7	11883.5	11888.2	11894.0	11896.4
5°	11583.1	11572.0	11569.6	11593.7	11583.7
7.5°	10960.7	10944.8	10920.7	10975.4	11026.5
10°	9918.1	9900.4	9848.1	9874.0	9915.7
12.5°	8378.8	8321.8	8320.6	8402.9	8391.7
15°	6347.0	6270.6	6312.9	6292.3	6281.1
17.5°	4268.1	4238.8	4295.2	4278.1	4204.7
20°	3070.3	3078.0	3185.5	3131.5	3066.2
22.5°	2240.5	2268.1	2395.6	2256.3	2205.2
25°	1491.7	1548.1	1682.1	1508.7	1461.1
27.5°	917.5	943.3	1079.1	905.7	879.8
30°	570.7	557.8	621.8	533.7	497.2
32.5°	374.4	357.9	378.5	339.7	310.3
35°	250.4	255.7	239.8	238.0	201.0
37.5°	156.3	179.8	158.7	169.3	129.3
40°	101.1	130.5	112.3	124.0	95.2
42.5°	82.9	100.5	92.3	98.2	84.6
45°	65.8	81.7	81.7	81.7	66.4
47.5°	36.4	54.7	69.9	55.8	38.8
50°	20.6	27.6	54.1	28.8	21.7
52.5°	14.1	15.9	37.0	16.5	14.7
55°	10.6	11.2	20.0	11.8	11.2
57.5°	8.2	8.8	10.6	8.8	8.2
60°	6.5	6.5	7.6	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	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)