

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



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: P792294

Luminaire Tested: LER6D40BD010-EC6DR3040509024-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792294  
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-EC6DR3040509024-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3748.2 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

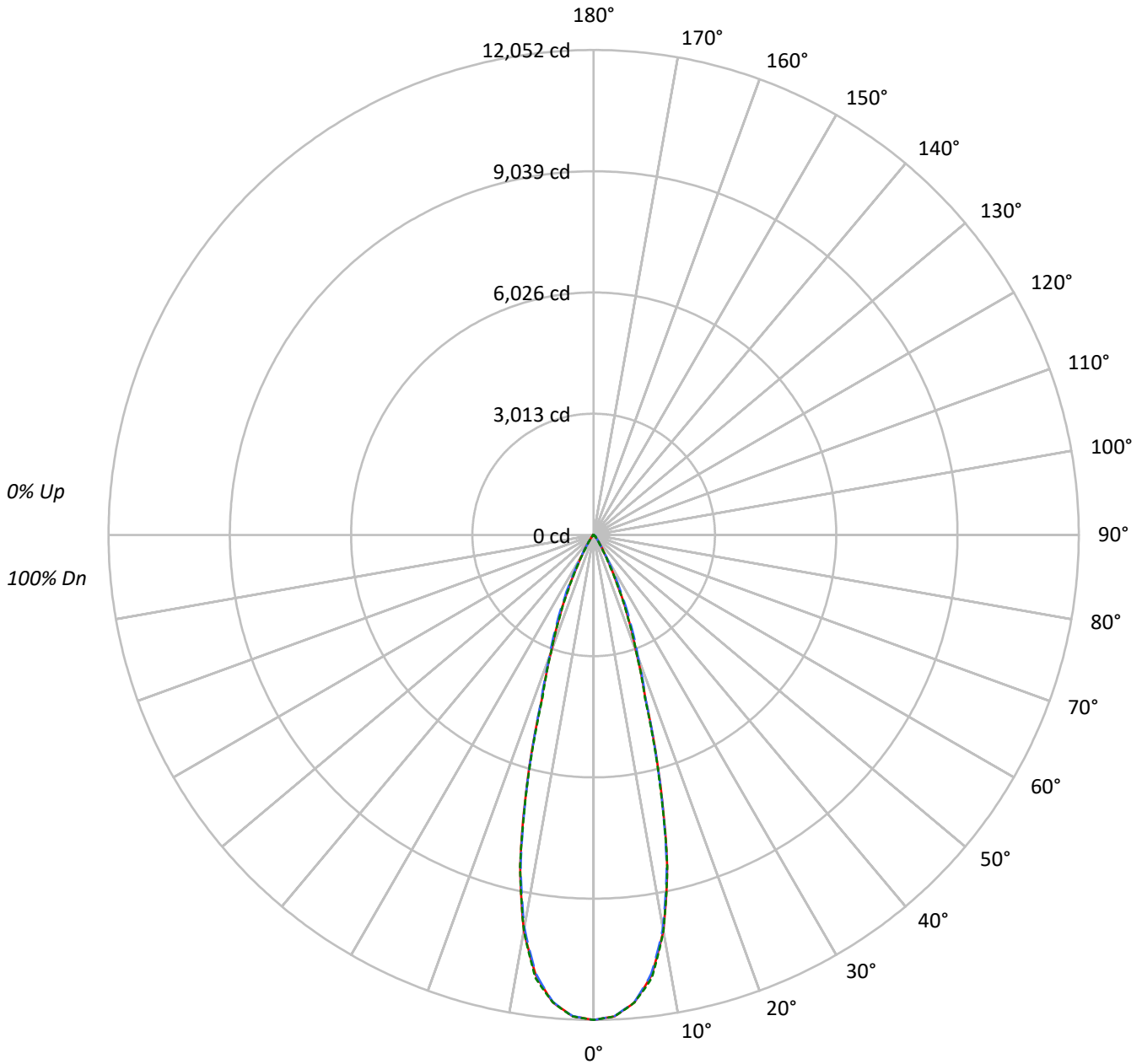


Downlight

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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	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°	922516	922516	922516
5°	896036	894991	896082
10°	776099	770628	775921
15°	506366	503648	501120
20°	251796	261237	251454
25°	126836	143027	124235
30°	50786	55329	44245
35°	23557	22557	18913
40°	10172	11291	9582
45°	7177	8898	7242
50°	2465	6478	2608
55°	1428	2682	1495
60°	995	1179	995
65°	652	652	652
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: 8898 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1059.8	28.3
10°-20°	1706.8	45.5
20°-30°	737.6	19.7
30°-40°	168.1	4.5
40°-50°	57.7	1.5
50°-60°	14.1	0.4
60°-70°	3.7	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°	3504.2	93.5
0°-40°	3672.3	98.0
0°-60°	3744.1	99.9
0°-90°	3748.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3748.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12052	12052	12052	12052	12052	
5°	11662	11650	11648	11672	11662	1061
15°	6390	6313	6356	6335	6324	1711
25°	1502	1559	1694	1519	1471	719
35°	252	257	241	240	202	171
45°	66	82	82	82	67	47
55°	11	11	20	12	11	10
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12052.2	12052.2	12052.2	12052.2	12052.2
2.5°	11972.4	11964.1	11968.8	11974.7	11977.1
5°	11661.7	11650.5	11648.1	11672.4	11662.3
7.5°	11035.1	11019.1	10994.8	11049.9	11101.3
10°	9985.3	9967.6	9914.9	9941.0	9983.0
12.5°	8435.6	8378.2	8377.0	8459.9	8448.6
15°	6390.0	6313.1	6355.7	6335.0	6323.8
17.5°	4297.1	4267.5	4324.3	4307.2	4233.2
20°	3091.2	3098.9	3207.1	3152.7	3087.0
22.5°	2255.7	2283.5	2411.9	2271.6	2220.1
25°	1501.8	1558.6	1693.5	1519.0	1471.0
27.5°	923.7	949.7	1086.4	911.8	885.8
30°	574.6	561.5	626.0	537.3	500.6
32.5°	376.9	360.4	381.1	342.0	312.4
35°	252.1	257.4	241.4	239.6	202.4
37.5°	157.4	181.1	159.8	170.4	130.2
40°	101.8	131.4	113.0	124.9	95.9
42.5°	83.4	101.2	92.9	98.8	85.2
45°	66.3	82.2	82.2	82.2	66.9
47.5°	36.7	55.0	70.4	56.2	39.1
50°	20.7	27.8	54.4	29.0	21.9
52.5°	14.2	16.0	37.3	16.6	14.8
55°	10.7	11.2	20.1	11.8	11.2
57.5°	8.3	8.9	10.7	8.9	8.3
60°	6.5	6.5	7.7	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.6	3.6	3.6	3.6	3.6
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

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)