

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: P792278

Luminaire Tested: LER6D40BD010-EC6DR2540509040-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D40BD010-EC6DR2540509040-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 25° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4231.4 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

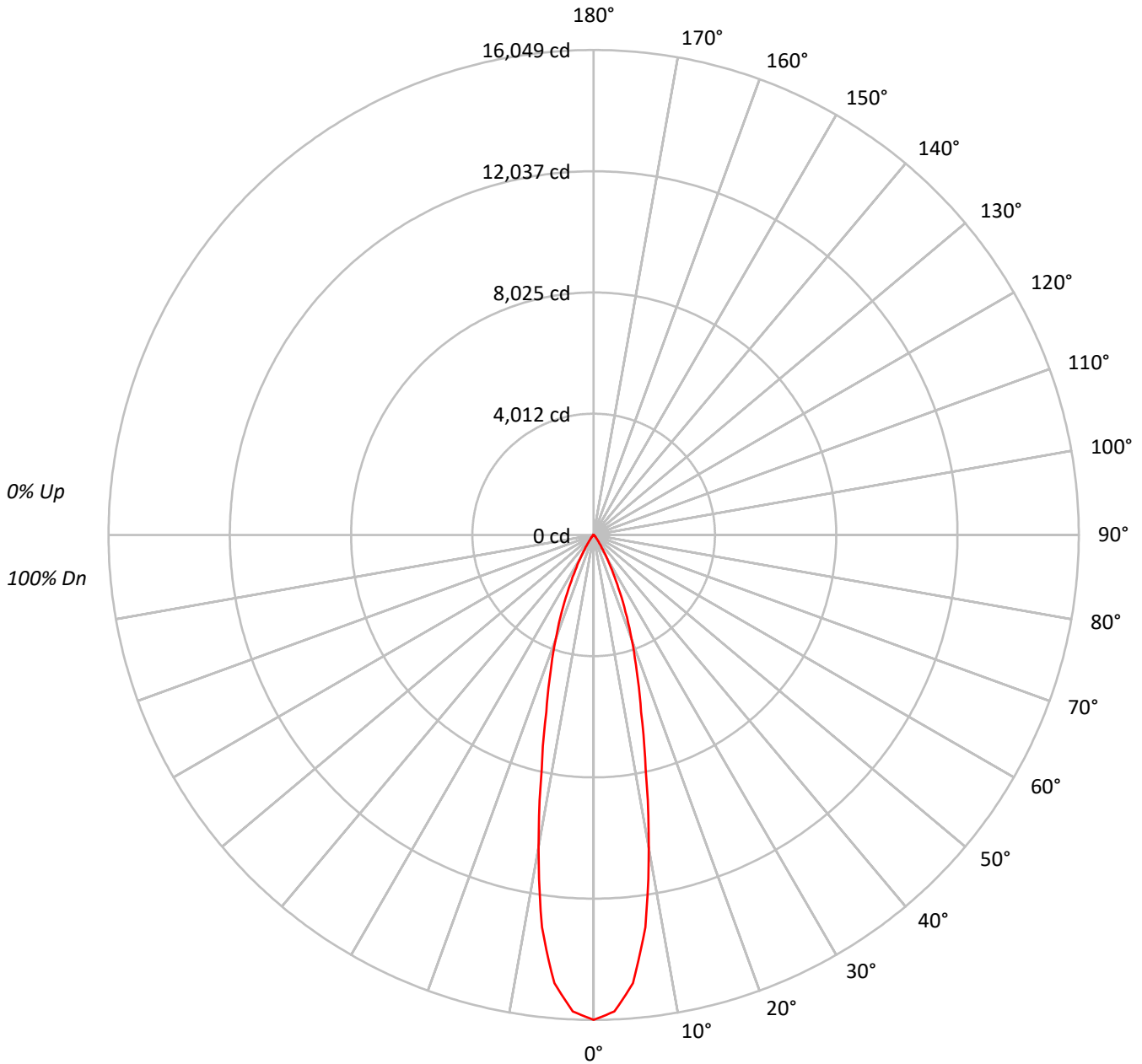
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P792278  
CATALOG NUMBER: LER6D40BD010-EC6DR2540509040-6LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P792278

CATALOG NUMBER: LER6D40BD010-EC6DR2540509040-6LBS1MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									20
RC	80									50									30									10									0									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	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	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																												
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82																												
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																												
7	93	87	82	79	92	86	82	79	85	81	78	84	80	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°
0°	1753504
5°	1633173
10°	1164980
15°	686133
20°	426919
25°	234300
30°	107151
35°	40575
40°	18371
45°	11048
50°	4589
55°	2953
60°	2054
65°	1396
70°	224
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11048 cd/sqm



TEST NUMBER: P792278

CATALOG NUMBER: LER6D40BD010-EC6DR2540509040-6LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1279.7	30.2
10°-20°	1733.3	41.0
20°-30°	917.2	21.7
30°-40°	226.4	5.4
40°-50°	55.2	1.3
50°-60°	14.5	0.3
60°-70°	4.9	0.1
70°-80°	0.1	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°	3930.3	92.9
0°-40°	4156.7	98.2
0°-60°	4226.4	99.9
0°-90°	4231.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4231.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16049	
5°	14891	###
15°	6066	1733
25°	1944	917
35°	304	226
45°	72	55
55°	16	15
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P792278

CATALOG NUMBER: LER6D40BD010-EC6DR2540509040-6LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16048.8
2.5°	15785.1
5°	14890.6
7.5°	13093.5
10°	10500.4
12.5°	7937.7
15°	6065.8
17.5°	4727.4
20°	3671.7
22.5°	2753.6
25°	1943.5
27.5°	1303.3
30°	849.3
32.5°	516.7
35°	304.2
37.5°	186.2
40°	128.8
42.5°	98.5
45°	71.5
47.5°	43.2
50°	27.0
52.5°	19.6
55°	15.5
57.5°	12.1
60°	9.4
62.5°	7.4
65°	5.4
67.5°	2.0
70°	0.7
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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





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

Scaled Data Report



— 0°-180°

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)