

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: P792322

Luminaire Tested: LER6D40BD010-EC6DR3040509040-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792322  
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-EC6DR3040509040-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 4125.1 lumens  
Efficiency: N/A  
Efficacy: 117.2 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

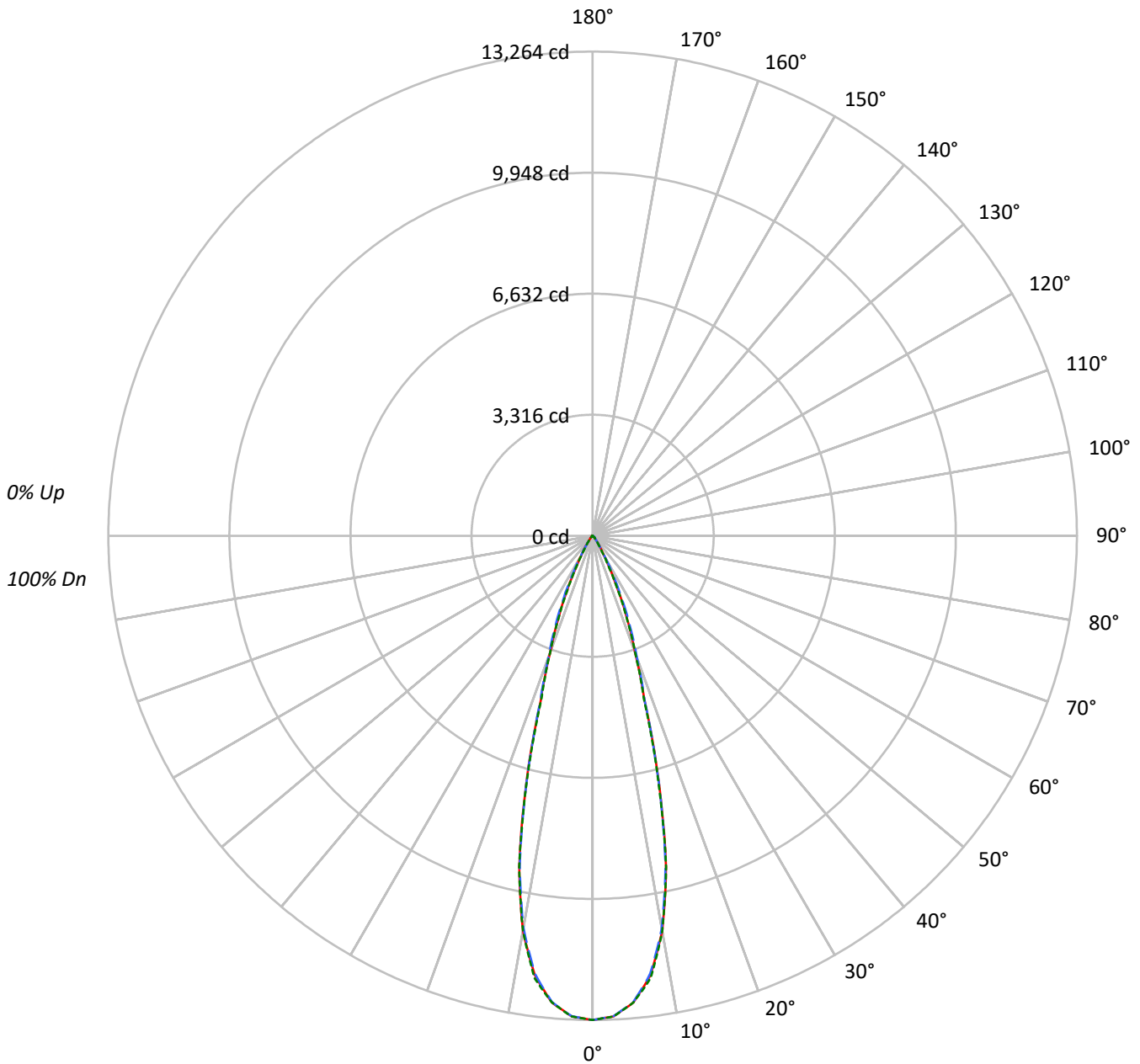


Downlight

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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°	1015279	1015279	1015279
5°	986133	984981	986180
10°	854142	848119	853940
15°	557288	554293	551503
20°	277113	287506	276738
25°	139589	157410	136726
30°	55886	60897	48691
35°	25921	24828	20810
40°	11191	12430	10542
45°	7891	9797	7967
50°	2715	7133	2870
55°	1561	2949	1655
60°	1102	1301	1102
65°	706	706	706
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9797 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1166.4	28.3
10°-20°	1878.5	45.5
20°-30°	811.7	19.7
30°-40°	185.0	4.5
40°-50°	63.5	1.5
50°-60°	15.5	0.4
60°-70°	4.0	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°	3856.6	93.5
0°-40°	4041.6	98.0
0°-60°	4120.6	99.9
0°-90°	4125.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13264	13264	13264	13264	13264	
5°	12834	12822	12819	12846	12835	1167
15°	7033	6948	6995	6972	6960	1883
25°	1653	1715	1864	1672	1619	791
35°	277	283	266	264	223	188
45°	73	90	90	90	74	52
55°	12	12	22	13	12	11
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13264.1	13264.1	13264.1	13264.1	13264.1
2.5°	13176.2	13167.1	13172.3	13178.8	13181.4
5°	12834.3	12821.9	12819.3	12846.0	12834.9
7.5°	12144.6	12127.1	12100.4	12160.9	12217.6
10°	10989.4	10969.8	10911.9	10940.5	10986.8
12.5°	9283.8	9220.7	9219.4	9310.5	9298.2
15°	7032.6	6947.9	6994.8	6972.0	6959.6
17.5°	4729.2	4696.6	4759.1	4740.2	4658.8
20°	3402.0	3410.5	3529.6	3469.7	3397.4
22.5°	2482.5	2513.1	2654.4	2500.0	2443.4
25°	1652.8	1715.3	1863.8	1671.7	1618.9
27.5°	1016.6	1045.2	1195.6	1003.5	974.9
30°	632.3	618.0	689.0	591.3	550.9
32.5°	414.8	396.6	419.4	376.4	343.8
35°	277.4	283.3	265.7	263.7	222.7
37.5°	173.2	199.3	175.8	187.6	143.3
40°	112.0	144.6	124.4	137.4	105.5
42.5°	91.8	111.4	102.2	108.8	93.8
45°	72.9	90.5	90.5	90.5	73.6
47.5°	40.4	60.6	77.5	61.9	43.0
50°	22.8	30.6	59.9	31.9	24.1
52.5°	15.6	17.6	41.0	18.2	16.3
55°	11.7	12.4	22.1	13.0	12.4
57.5°	9.1	9.8	11.7	9.8	9.1
60°	7.2	7.2	8.5	7.8	7.2
62.5°	5.2	5.2	5.9	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)