

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: P792317

Luminaire Tested: LER6D40BD010-EC6DR3040509035-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792317  
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-EC6DR3040509035-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4882.7 lumens  
Efficiency: N/A  
Efficacy: 138.7 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

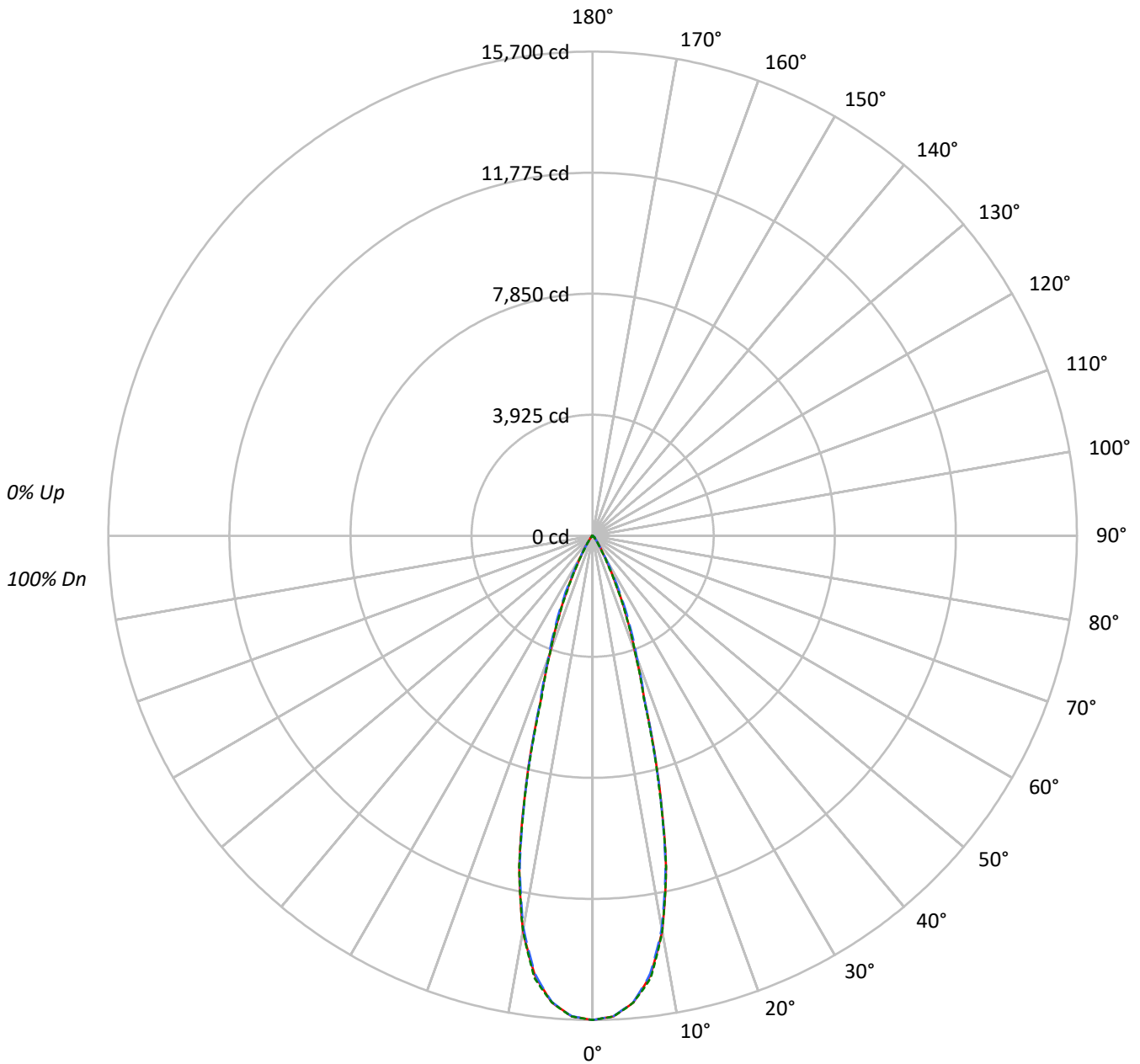
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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																			
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°	1201754	1201754	1201754
5°	1167251	1165891	1167312
10°	1011021	1003886	1010780
15°	659639	656097	652800
20°	328006	340314	327566
25°	165230	186319	161844
30°	66156	72078	57636
35°	30686	29388	24631
40°	13249	14708	12480
45°	9342	11593	9428
50°	3215	8443	3394
55°	1855	3496	1948
60°	1301	1531	1301
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11593 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1380.6	28.3
10°-20°	2223.5	45.5
20°-30°	960.8	19.7
30°-40°	219.0	4.5
40°-50°	75.2	1.5
50°-60°	18.4	0.4
60°-70°	4.8	0.1
70°-80°	0.5	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°	4564.9	93.5
0°-40°	4783.9	98.0
0°-60°	4877.4	99.9
0°-90°	4882.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4882.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15700	15700	15700	15700	15700	
5°	15192	15177	15174	15205	15192	1382
15°	8324	8224	8280	8252	8238	2229
25°	1956	2030	2206	1979	1916	936
35°	328	335	314	312	264	223
45°	86	107	107	107	87	61
55°	14	15	26	15	15	14
65°	5	5	5	5	5	5
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°	15700.3	15700.3	15700.3	15700.3	15700.3
2.5°	15596.2	15585.4	15591.6	15599.3	15602.4
5°	15191.5	15176.9	15173.8	15205.4	15192.3
7.5°	14375.2	14354.4	14322.8	14394.5	14461.6
10°	13007.8	12984.6	12916.0	12950.0	13004.7
12.5°	10989.0	10914.2	10912.7	11020.6	11005.9
15°	8324.2	8224.0	8279.5	8252.5	8237.9
17.5°	5597.8	5559.2	5633.2	5610.9	5514.5
20°	4026.8	4036.8	4177.9	4107.0	4021.4
22.5°	2938.4	2974.6	3141.9	2959.2	2892.2
25°	1956.4	2030.4	2206.1	1978.7	1916.3
27.5°	1203.3	1237.2	1415.2	1187.9	1153.9
30°	748.5	731.5	815.5	699.9	652.1
32.5°	491.0	469.4	496.4	445.5	407.0
35°	328.4	335.3	314.5	312.2	263.6
37.5°	205.0	235.9	208.1	222.0	169.6
40°	132.6	171.1	147.2	162.6	124.9
42.5°	108.7	131.8	121.0	128.7	111.0
45°	86.3	107.1	107.1	107.1	87.1
47.5°	47.8	71.7	91.7	73.2	50.9
50°	27.0	36.2	70.9	37.8	28.5
52.5°	18.5	20.8	48.6	21.6	19.3
55°	13.9	14.6	26.2	15.4	14.6
57.5°	10.8	11.6	13.9	11.6	10.8
60°	8.5	8.5	10.0	9.2	8.5
62.5°	6.2	6.2	6.9	6.2	6.2
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)