

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: P792781

Luminaire Tested: LER6D45BD010-EC6DR3040509027-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792781  
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: LER6D45BD010-EC6DR3040509027-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5137.4 lumens  
Efficiency: N/A  
Efficacy: 132.8 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

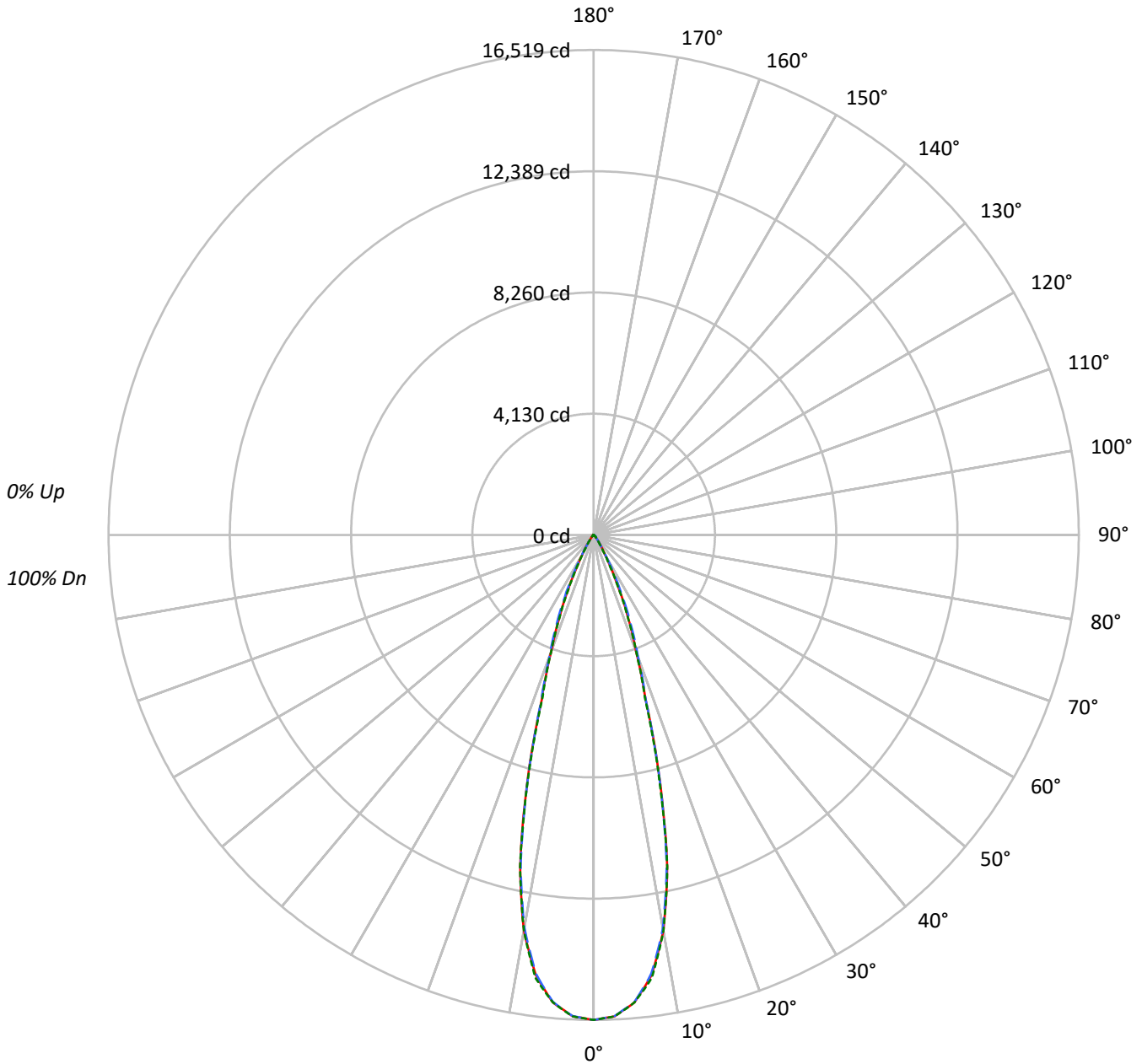
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1264451	1264451	1264451
5°	1228158	1226722	1228220
10°	1063772	1056264	1063516
15°	694055	690330	686859
20°	345120	358071	344656
25°	173845	196040	170289
30°	69603	75843	60641
35°	32284	30920	25921
40°	13939	15478	13130
45°	9829	12200	9916
50°	3382	8883	3572
55°	1948	3683	2055
60°	1362	1607	1362
65°	887	887	887
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12200 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1452.6	28.3
10°-20°	2339.5	45.5
20°-30°	1010.9	19.7
30°-40°	230.4	4.5
40°-50°	79.1	1.5
50°-60°	19.3	0.4
60°-70°	5.0	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°	4803.1	93.5
0°-40°	5033.5	98.0
0°-60°	5131.9	99.9
0°-90°	5137.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16519	16519	16519	16519	16519	
5°	15984	15969	15966	15999	15985	1454
15°	8758	8653	8712	8683	8668	2345
25°	2058	2136	2321	2082	2016	985
35°	346	353	331	328	277	234
45°	91	113	113	113	92	64
55°	15	15	28	16	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°	16519.4	16519.4	16519.4	16519.4	16519.4
2.5°	16410.0	16398.6	16405.1	16413.2	16416.4
5°	15984.2	15968.7	15965.5	15998.8	15985.0
7.5°	15125.3	15103.4	15070.1	15145.5	15216.1
10°	13686.5	13662.1	13589.9	13625.6	13683.2
12.5°	11562.3	11483.6	11482.0	11595.6	11580.2
15°	8758.5	8653.1	8711.5	8683.1	8667.7
17.5°	5889.8	5849.3	5927.1	5903.6	5802.2
20°	4236.9	4247.5	4395.9	4321.3	4231.2
22.5°	3091.7	3129.8	3305.8	3113.6	3043.1
25°	2058.4	2136.3	2321.2	2082.0	2016.3
27.5°	1266.0	1301.7	1489.1	1249.8	1214.1
30°	787.5	769.7	858.1	736.4	686.1
32.5°	516.6	493.9	522.3	468.8	428.2
35°	345.5	352.8	330.9	328.5	277.4
37.5°	215.7	248.2	219.0	233.6	178.4
40°	139.5	180.1	154.9	171.1	131.4
42.5°	114.4	138.7	127.3	135.4	116.8
45°	90.8	112.7	112.7	112.7	91.6
47.5°	50.3	75.4	96.5	77.0	53.5
50°	28.4	38.1	74.6	39.7	30.0
52.5°	19.5	21.9	51.1	22.7	20.3
55°	14.6	15.4	27.6	16.2	15.4
57.5°	11.4	12.2	14.6	12.2	11.4
60°	8.9	8.9	10.5	9.7	8.9
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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)