

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: P792805

Luminaire Tested: LER6D45BD010-EC6DR3040509040-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792805  
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-EC6DR3040509040-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5598.6 lumens  
Efficiency: N/A  
Efficacy: 144.7 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

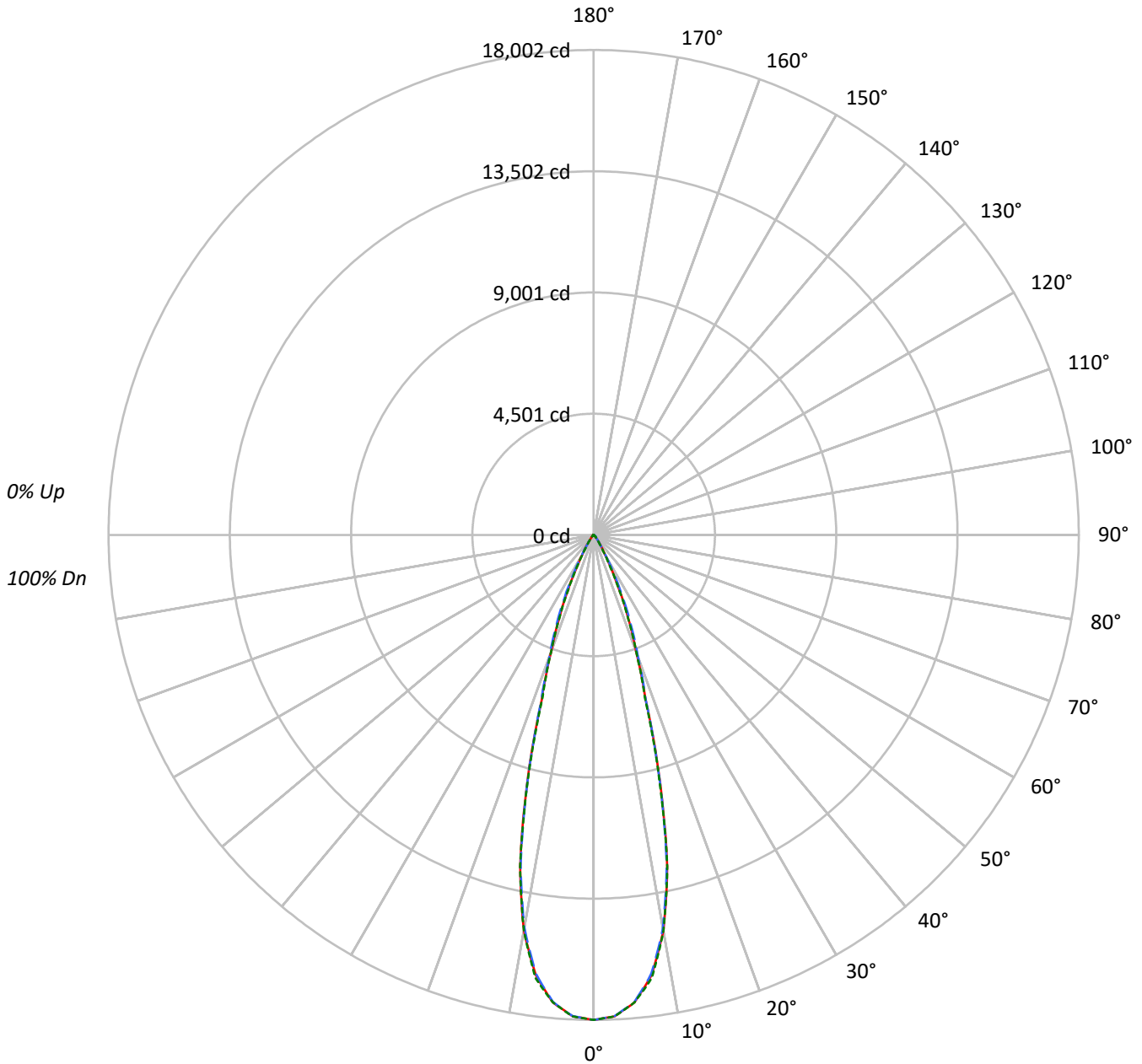
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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					70					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°	1377934	1377934	1377934
5°	1338372	1336812	1338441
10°	1159233	1151057	1158961
15°	756340	752283	748503
20°	376098	390206	375593
25°	189452	213632	185567
30°	75852	82649	66085
35°	35181	33695	28248
40°	15188	16867	14309
45°	10717	13304	10814
50°	3680	9681	3894
55°	2122	4017	2242
60°	1485	1760	1485
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13304 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1583.0	28.3
10°-20°	2549.4	45.5
20°-30°	1101.7	19.7
30°-40°	251.1	4.5
40°-50°	86.2	1.5
50°-60°	21.1	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5234.1	93.5
0°-40°	5485.2	98.0
0°-60°	5592.5	99.9
0°-90°	5598.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5598.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18002	18002	18002	18002	18002	
5°	17419	17402	17398	17434	17420	1584
15°	9544	9430	9493	9462	9446	2556
25°	2243	2328	2530	2269	2197	1074
35°	376	384	361	358	302	255
45°	99	123	123	123	100	70
55°	16	17	30	18	17	15
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°	18002.0	18002.0	18002.0	18002.0	18002.0
2.5°	17882.6	17870.3	17877.3	17886.2	17889.7
5°	17418.6	17401.8	17398.3	17434.5	17419.5
7.5°	16482.7	16458.8	16422.5	16504.7	16581.6
10°	14914.7	14888.2	14809.5	14848.4	14911.2
12.5°	12600.0	12514.2	12512.5	12636.2	12619.4
15°	9544.5	9429.6	9493.3	9462.3	9445.6
17.5°	6418.4	6374.2	6459.1	6433.4	6323.0
20°	4617.2	4628.6	4790.4	4709.1	4611.0
22.5°	3369.2	3410.7	3602.5	3393.0	3316.2
25°	2243.2	2328.0	2529.5	2268.8	2197.2
27.5°	1379.7	1418.6	1622.7	1362.0	1323.1
30°	858.2	838.8	935.1	802.5	747.7
32.5°	563.0	538.3	569.2	510.9	466.7
35°	376.5	384.5	360.6	358.0	302.3
37.5°	235.1	270.5	238.6	254.5	194.4
40°	152.0	196.2	168.8	186.5	143.2
42.5°	124.6	151.1	138.8	147.6	127.3
45°	99.0	122.9	122.9	122.9	99.9
47.5°	54.8	82.2	105.2	84.0	58.3
50°	30.9	41.5	81.3	43.3	32.7
52.5°	21.2	23.9	55.7	24.7	22.1
55°	15.9	16.8	30.1	17.7	16.8
57.5°	12.4	13.3	15.9	13.3	12.4
60°	9.7	9.7	11.5	10.6	9.7
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.5	3.5	3.5	3.5
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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







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

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(END OF REPORT)