

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: P792813

Luminaire Tested: LER6D45BD010-EC6DR3040509050-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792813  
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-EC6DR3040509050-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5638.5 lumens  
Efficiency: N/A  
Efficacy: 145.7 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

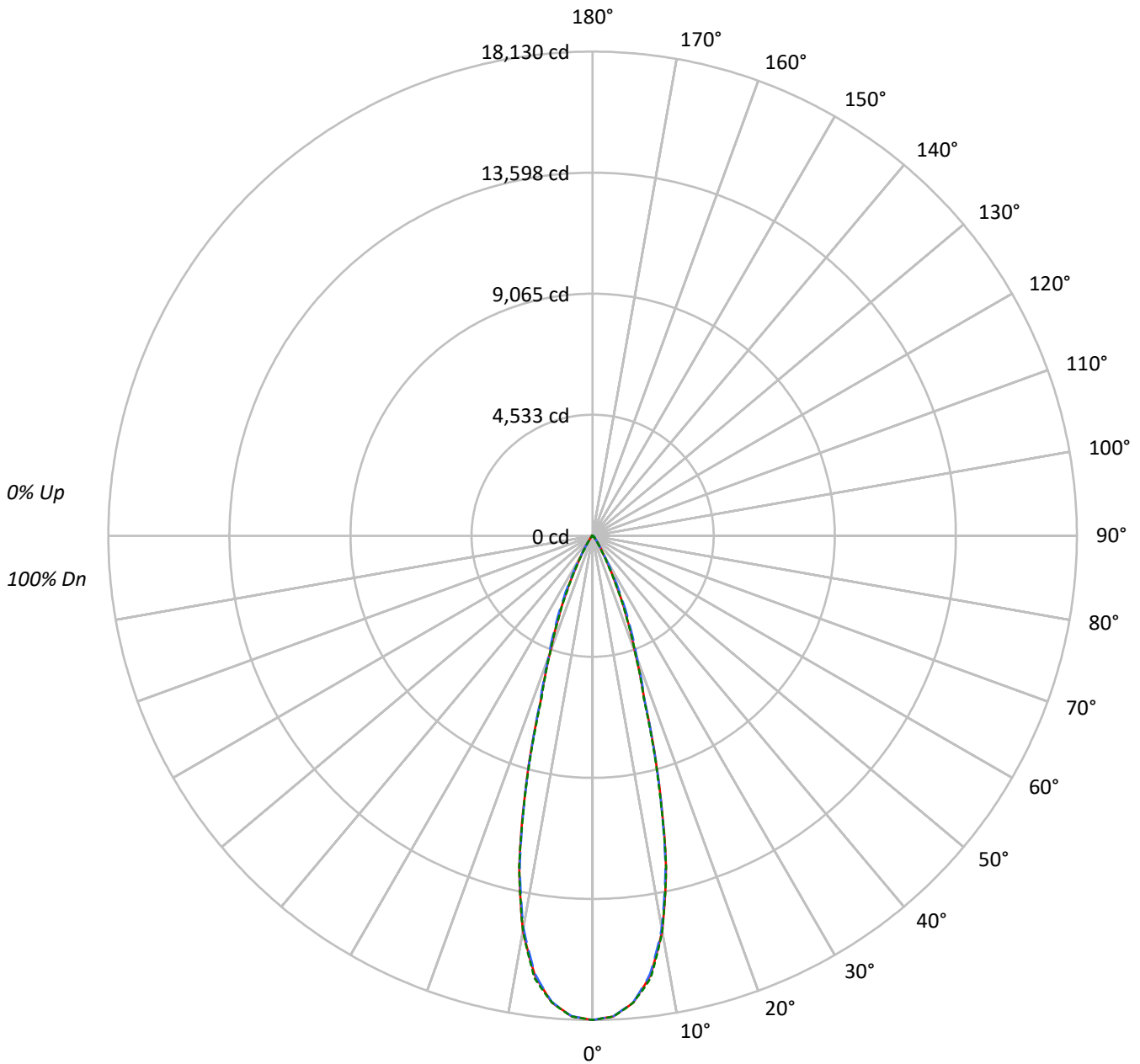
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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									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	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°	1387770	1387770	1387770
5°	1347938	1346363	1347999
10°	1167519	1159280	1167239
15°	761745	757656	753844
20°	378778	392992	378272
25°	190804	215161	186893
30°	76391	83241	66563
35°	35433	33938	28444
40°	15298	16986	14409
45°	10792	13390	10890
50°	3715	9753	3918
55°	2135	4044	2255
60°	1500	1776	1500
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: 13390 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1594.3	28.3
10°-20°	2567.6	45.5
20°-30°	1109.5	19.7
30°-40°	252.9	4.5
40°-50°	86.8	1.5
50°-60°	21.2	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°	5271.5	93.5
0°-40°	5524.4	98.0
0°-60°	5632.4	99.9
0°-90°	5638.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5638.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18130	18130	18130	18130	18130	
5°	17543	17526	17523	17559	17544	1596
15°	9613	9497	9561	9530	9513	2574
25°	2259	2345	2548	2285	2213	1081
35°	379	387	363	360	304	257
45°	100	124	124	124	101	71
55°	16	17	30	18	17	16
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°	18130.5	18130.5	18130.5	18130.5	18130.5
2.5°	18010.4	17997.9	18005.0	18013.9	18017.5
5°	17543.1	17526.1	17522.6	17559.1	17543.9
7.5°	16600.4	16576.3	16539.9	16622.6	16700.1
10°	15021.3	14994.6	14915.3	14954.5	15017.7
12.5°	12690.0	12603.6	12601.8	12726.5	12709.5
15°	9612.7	9497.0	9561.1	9529.9	9513.0
17.5°	6464.3	6419.8	6505.2	6479.4	6368.1
20°	4650.1	4661.7	4824.6	4742.7	4643.9
22.5°	3393.2	3435.1	3628.2	3417.3	3339.8
25°	2259.2	2344.7	2547.6	2285.0	2212.9
27.5°	1389.5	1428.7	1634.3	1371.7	1332.6
30°	864.3	844.8	941.8	808.3	753.1
32.5°	567.0	542.1	573.3	514.5	470.0
35°	379.2	387.2	363.2	360.5	304.4
37.5°	236.8	272.4	240.3	256.4	195.8
40°	153.1	197.6	170.0	187.8	144.2
42.5°	125.5	152.2	139.8	148.7	128.2
45°	99.7	123.7	123.7	123.7	100.6
47.5°	55.2	82.8	105.9	84.6	58.7
50°	31.2	41.8	81.9	43.6	32.9
52.5°	21.4	24.0	56.1	24.9	22.3
55°	16.0	16.9	30.3	17.8	16.9
57.5°	12.5	13.4	16.0	13.4	12.5
60°	9.8	9.8	11.6	10.7	9.8
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	3.6	3.6	3.6	3.6
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

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

Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)