

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: P792793

Luminaire Tested: LER6D45BD010-EC6DR3040509035-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792793  
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-EC6DR3040509035-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 5081.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 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

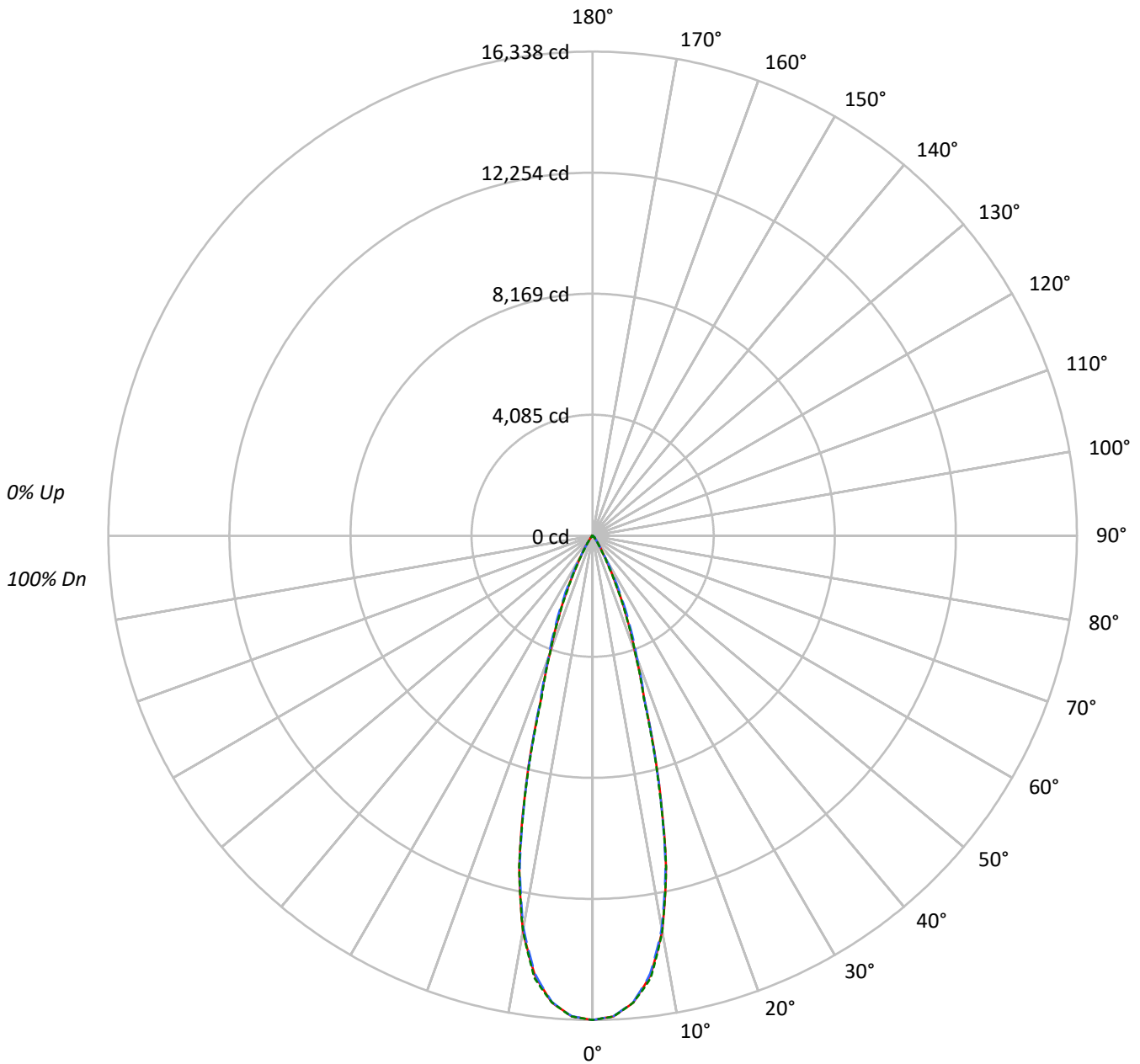


Downlight

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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°	1250566	1250566	1250566
5°	1214666	1213252	1214728
10°	1052083	1044668	1051834
15°	686431	682747	679315
20°	341332	354137	340876
25°	171936	193886	168414
30°	68843	75012	59978
35°	31929	30584	25631
40°	13789	15308	12980
45°	9721	12070	9807
50°	3346	8788	3537
55°	1922	3643	2028
60°	1347	1592	1347
65°	869	869	869
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: 12070 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1436.7	28.3
10°-20°	2313.8	45.5
20°-30°	999.8	19.7
30°-40°	227.9	4.5
40°-50°	78.2	1.5
50°-60°	19.1	0.4
60°-70°	4.9	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°	4750.3	93.5
0°-40°	4978.2	98.0
0°-60°	5075.6	99.9
0°-90°	5081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16338	16338	16338	16338	16338	
5°	15809	15793	15790	15823	15809	1438
15°	8662	8558	8616	8588	8572	2319
25°	2036	2113	2296	2059	1994	974
35°	342	349	327	325	274	232
45°	90	112	112	112	91	64
55°	14	15	27	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°	16338.0	16338.0	16338.0	16338.0	16338.0
2.5°	16229.7	16218.5	16224.9	16232.9	16236.2
5°	15808.6	15793.4	15790.2	15823.1	15809.4
7.5°	14959.1	14937.5	14904.6	14979.2	15049.0
10°	13536.1	13512.1	13440.7	13476.0	13532.9
12.5°	11435.3	11357.5	11355.9	11468.2	11453.0
15°	8662.3	8558.1	8615.8	8587.7	8572.5
17.5°	5825.2	5785.0	5862.1	5838.8	5738.5
20°	4190.4	4200.8	4347.6	4273.8	4184.8
22.5°	3057.8	3095.5	3269.5	3079.4	3009.6
25°	2035.8	2112.8	2295.7	2059.1	1994.1
27.5°	1252.1	1287.4	1472.7	1236.1	1200.8
30°	778.9	761.2	848.7	728.3	678.6
32.5°	511.0	488.5	516.6	463.6	423.5
35°	341.7	348.9	327.3	324.9	274.3
37.5°	213.4	245.5	216.6	231.0	176.5
40°	138.0	178.1	153.2	169.3	129.9
42.5°	113.1	137.2	125.9	134.0	115.5
45°	89.8	111.5	111.5	111.5	90.6
47.5°	49.7	74.6	95.5	76.2	52.9
50°	28.1	37.7	73.8	39.3	29.7
52.5°	19.3	21.7	50.5	22.5	20.1
55°	14.4	15.2	27.3	16.0	15.2
57.5°	11.2	12.0	14.4	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
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

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)