

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: P790183

Luminaire Tested: LER6D20D010-EC6DR3020359027-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790183  
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: LER6D20D010-EC6DR3020359027-6LBDDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2548.5 lumens  
Efficiency: N/A  
Efficacy: 110.3 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): 23.1  
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

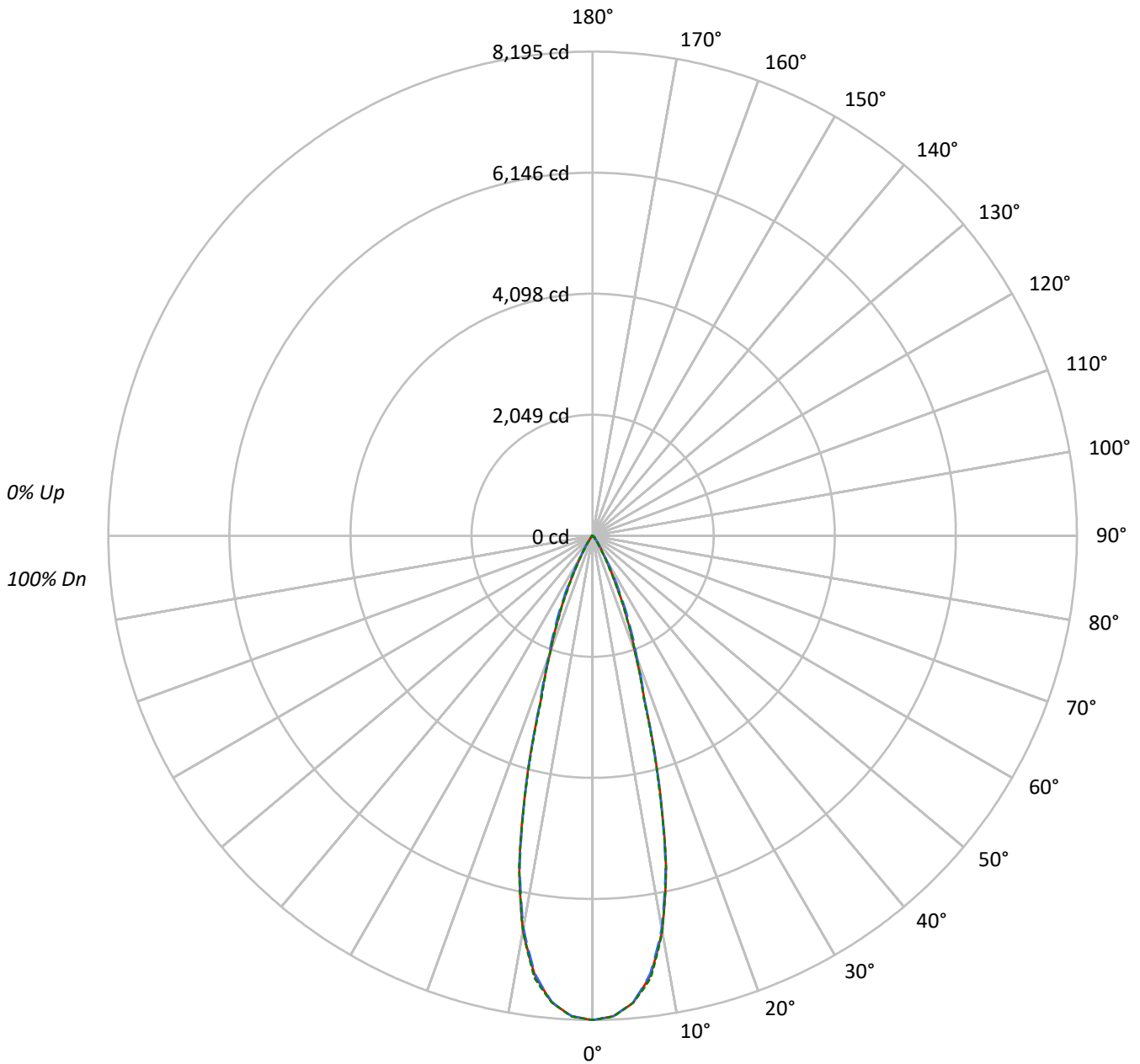


Downlight

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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°	627250	627250	627250
5°	609239	608532	609269
10°	527693	523970	527569
15°	344297	342443	340724
20°	171204	177622	170976
25°	86238	97251	84473
30°	34532	37625	30086
35°	16016	15343	12858
40°	6914	7674	6515
45°	4882	6051	4925
50°	1679	4406	1774
55°	961	1828	1014
60°	674	796	674
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6051 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	720.6	28.3
10°-20°	1160.5	45.5
20°-30°	501.5	19.7
30°-40°	114.3	4.5
40°-50°	39.2	1.5
50°-60°	9.6	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2382.6	93.5
0°-40°	2496.9	98.0
0°-60°	2545.7	99.9
0°-90°	2548.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8195	8195	8195	8195	8195	
5°	7929	7922	7920	7936	7930	721
15°	4345	4292	4321	4307	4300	1163
25°	1021	1060	1152	1033	1000	489
35°	171	175	164	163	138	116
45°	45	56	56	56	46	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	8194.7	8194.7	8194.7	8194.7	8194.7
2.5°	8140.4	8134.7	8137.9	8142.0	8143.6
5°	7929.1	7921.5	7919.9	7936.4	7929.5
7.5°	7503.1	7492.2	7475.7	7513.1	7548.1
10°	6789.3	6777.3	6741.4	6759.2	6787.7
12.5°	5735.6	5696.6	5695.8	5752.1	5744.5
15°	4344.8	4292.5	4321.4	4307.4	4299.7
17.5°	2921.7	2901.6	2940.2	2928.6	2878.3
20°	2101.8	2107.0	2180.6	2143.6	2099.0
22.5°	1533.7	1552.6	1639.9	1544.5	1509.5
25°	1021.1	1059.7	1151.5	1032.8	1000.2
27.5°	628.0	645.7	738.7	620.0	602.3
30°	390.7	381.8	425.7	365.3	340.4
32.5°	256.3	245.0	259.1	232.5	212.4
35°	171.4	175.0	164.2	162.9	137.6
37.5°	107.0	123.1	108.6	115.9	88.5
40°	69.2	89.3	76.8	84.9	65.2
42.5°	56.7	68.8	63.2	67.2	57.9
45°	45.1	55.9	55.9	55.9	45.5
47.5°	24.9	37.4	47.9	38.2	26.6
50°	14.1	18.9	37.0	19.7	14.9
52.5°	9.7	10.9	25.3	11.3	10.1
55°	7.2	7.6	13.7	8.0	7.6
57.5°	5.6	6.0	7.2	6.0	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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)