

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: P790222

Luminaire Tested: LER6D20D010-EC6DR3020359050-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790222  
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-EC6DR3020359050-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3506.1 lumens  
Efficiency: N/A  
Efficacy: 151.8 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

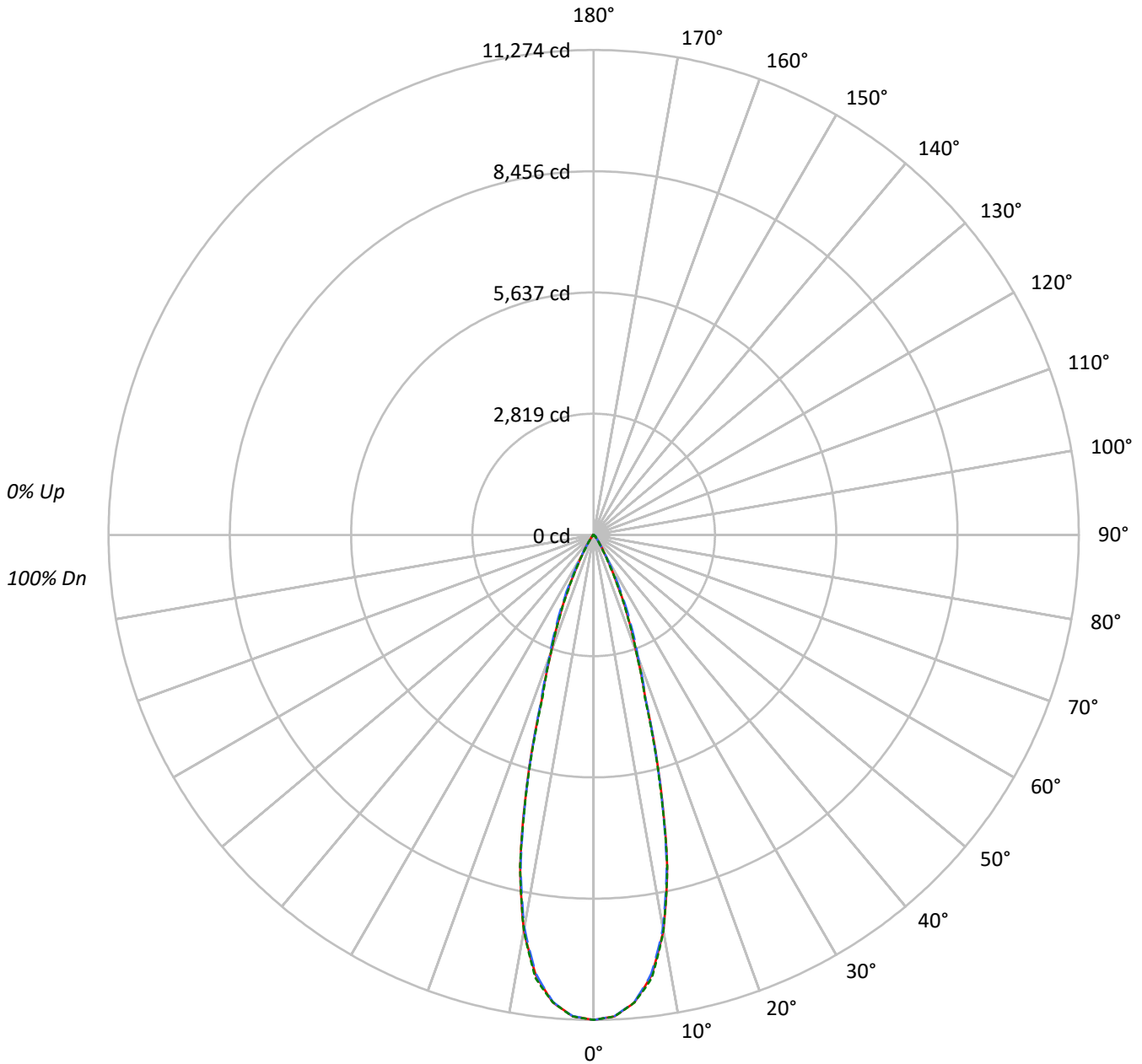
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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					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	102	100	100	100	100	100		
	1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	98	96	96	96	96	96		
	2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	94	92	92	92	92	92		
	3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	90	89	89	89	89	89		
	4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	87	85	85	85	85	85		
	5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	83	82	82	82	82	82		
	6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	80	79	79	79	79	79		
	7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	78	77	77	77	77	77		
	8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	75	74	74	74	74	74		
	9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	73	72	72	72	72	72		
	10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	70	69	69	69	69	69		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	862943	862943	862943
5°	838171	837195	838217
10°	725983	720869	725812
15°	473670	471127	468757
20°	235529	244367	235220
25°	118644	133796	116212
30°	47507	51758	41391
35°	22034	21099	17689
40°	9512	10562	8963
45°	6711	8324	6766
50°	2310	6061	2441
55°	1334	2509	1401
60°	934	1102	934
65°	598	598	598
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8324 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	991.4	28.3
10°-20°	1596.6	45.5
20°-30°	689.9	19.7
30°-40°	157.3	4.5
40°-50°	54.0	1.5
50°-60°	13.2	0.4
60°-70°	3.4	0.1
70°-80°	0.4	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°	3277.9	93.5
0°-40°	3435.2	98.0
0°-60°	3502.4	99.9
0°-90°	3506.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3506.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11274	11274	11274	11274	11274	
5°	10909	10898	10896	10919	10909	992
15°	5977	5905	5945	5926	5915	1601
25°	1405	1458	1584	1421	1376	672
35°	236	241	226	224	189	160
45°	62	77	77	77	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
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°	11273.9	11273.9	11273.9	11273.9	11273.9
2.5°	11199.2	11191.5	11195.9	11201.4	11203.6
5°	10908.6	10898.1	10895.9	10918.6	10909.2
7.5°	10322.5	10307.5	10284.8	10336.3	10384.5
10°	9340.5	9323.9	9274.7	9299.0	9338.3
12.5°	7890.9	7837.2	7836.1	7913.6	7903.1
15°	5977.4	5905.4	5945.3	5925.9	5915.4
17.5°	4019.6	3991.9	4045.1	4029.0	3959.8
20°	2891.5	2898.7	3000.0	2949.1	2887.7
22.5°	2110.0	2136.0	2256.1	2124.9	2076.8
25°	1404.8	1458.0	1584.2	1420.9	1376.0
27.5°	864.0	888.4	1016.2	853.0	828.6
30°	537.5	525.3	585.6	502.6	468.3
32.5°	352.6	337.1	356.5	319.9	292.3
35°	235.8	240.8	225.8	224.2	189.3
37.5°	147.2	169.4	149.4	159.4	121.8
40°	95.2	122.9	105.7	116.8	89.7
42.5°	78.0	94.7	86.9	92.4	79.7
45°	62.0	76.9	76.9	76.9	62.5
47.5°	34.3	51.5	65.9	52.6	36.5
50°	19.4	26.0	50.9	27.1	20.5
52.5°	13.3	14.9	34.9	15.5	13.8
55°	10.0	10.5	18.8	11.1	10.5
57.5°	7.7	8.3	10.0	8.3	7.7
60°	6.1	6.1	7.2	6.6	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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