

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: P773435

Luminaire Tested: LD6D90BD010-EU6DR3070959035-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773435  
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: LD6D90BD010-EU6DR3070959035-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10631.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

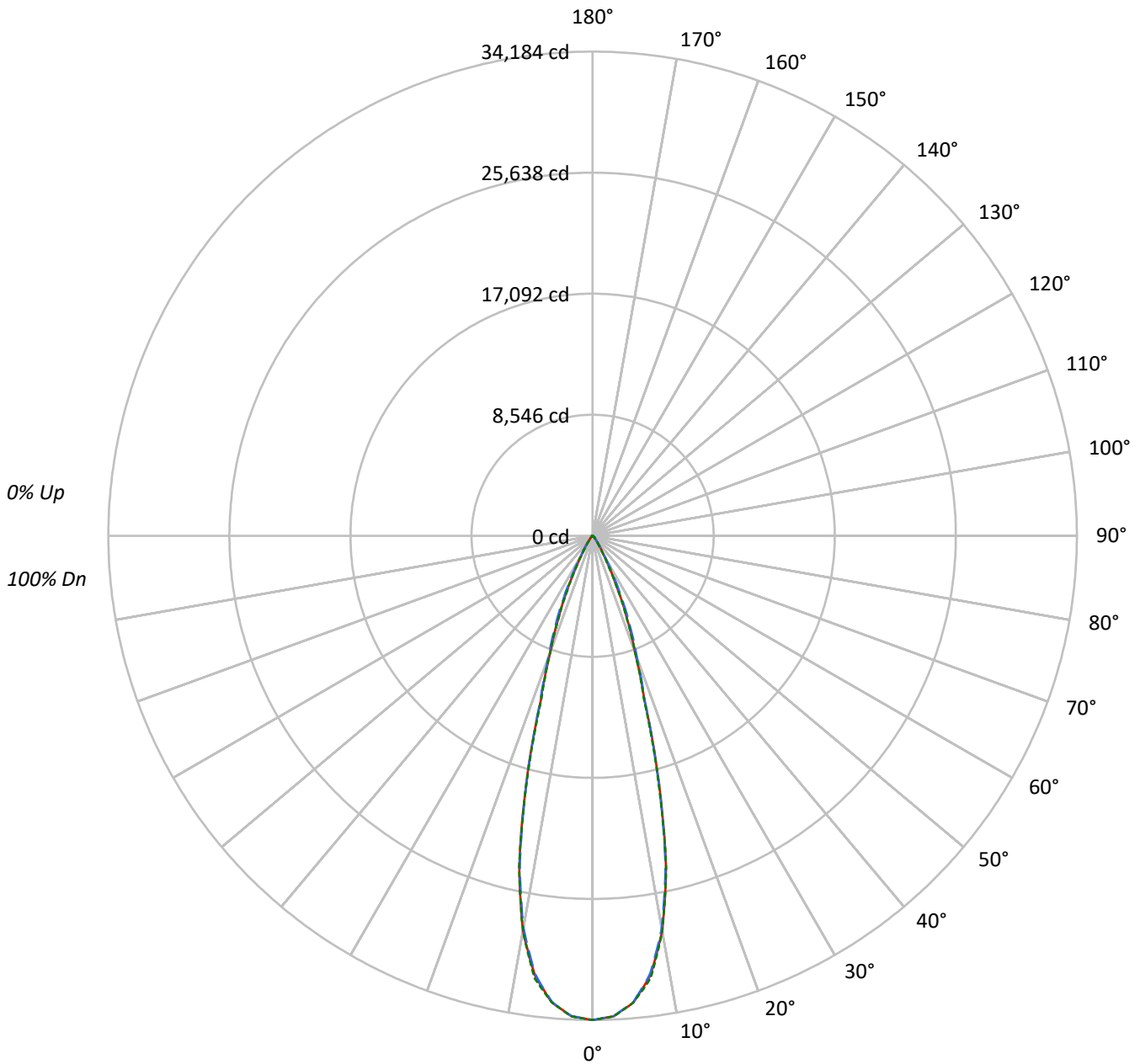
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	2616529	2616529	2616529
5°	2541420	2538454	2541543
10°	2201250	2185729	2200730
15°	1436210	1428492	1421312
20°	714155	740954	713202
25°	359742	405669	352377
30°	144032	156936	125489
35°	66811	63980	53636
40°	28847	32034	27168
45°	20351	25254	20524
50°	6990	18386	7395
55°	4030	7620	4257
60°	2832	3337	2832
65°	1829	1829	1829
70°	1119	761	1119
75°	0	503	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 25254 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3005.9	28.3
10°-20°	4841.1	45.5
20°-30°	2092.0	19.7
30°-40°	476.8	4.5
40°-50°	163.7	1.5
50°-60°	40.0	0.4
60°-70°	10.4	0.1
70°-80°	1.1	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°	9939.0	93.5
0°-40°	10415.8	98.0
0°-60°	10619.5	99.9
0°-90°	10631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	34184	34184	34184	34184	34184	
5°	33076	33044	33037	33106	33078	3008
15°	18124	17906	18027	17968	17936	4853
25°	4260	4421	4803	4308	4172	2039
35°	715	730	685	680	574	485
45°	188	233	233	233	190	133
55°	30	32	57	34	32	29
65°	10	10	10	10	10	10
75°	0	0	2	0	0	2
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°	34183.6	34183.6	34183.6	34183.6	34183.6
2.5°	33957.1	33933.6	33947.0	33963.8	33970.5
5°	33076.0	33044.1	33037.4	33106.2	33077.6
7.5°	31298.6	31253.3	31184.5	31340.6	31486.6
10°	28321.3	28271.0	28121.6	28195.5	28314.6
12.5°	23925.9	23763.1	23759.7	23994.7	23962.8
15°	18124.0	17905.8	18026.6	17967.9	17936.0
17.5°	12187.8	12103.9	12265.0	12216.4	12006.6
20°	8767.4	8789.3	9096.4	8942.0	8755.7
22.5°	6397.7	6476.6	6840.8	6443.0	6297.0
25°	4259.5	4420.6	4803.3	4308.2	4172.3
27.5°	2619.8	2693.7	3081.4	2586.3	2512.4
30°	1629.6	1592.7	1775.6	1523.9	1419.8
32.5°	1069.1	1022.1	1080.8	970.1	886.1
35°	715.0	730.1	684.7	679.7	574.0
37.5°	446.4	513.6	453.1	483.4	369.2
40°	288.7	372.6	320.6	354.1	271.9
42.5°	236.6	287.0	263.5	280.3	241.7
45°	188.0	233.3	233.3	233.3	189.6
47.5°	104.1	156.1	199.7	159.4	110.8
50°	58.7	78.9	154.4	82.2	62.1
52.5°	40.3	45.3	105.7	47.0	42.0
55°	30.2	31.9	57.1	33.6	31.9
57.5°	23.5	25.2	30.2	25.2	23.5
60°	18.5	18.5	21.8	20.1	18.5
62.5°	13.4	13.4	15.1	13.4	13.4
65°	10.1	10.1	10.1	10.1	10.1
67.5°	5.0	6.7	6.7	6.7	6.7
70°	5.0	3.4	3.4	3.4	5.0
72.5°	3.4	1.7	1.7	1.7	1.7
75°	0.0	0.0	1.7	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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(END OF REPORT)