

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: P773457

Luminaire Tested: LD6D90BD010-EU6DR3070959050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773457  
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-EU6DR3070959050-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9142.6 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

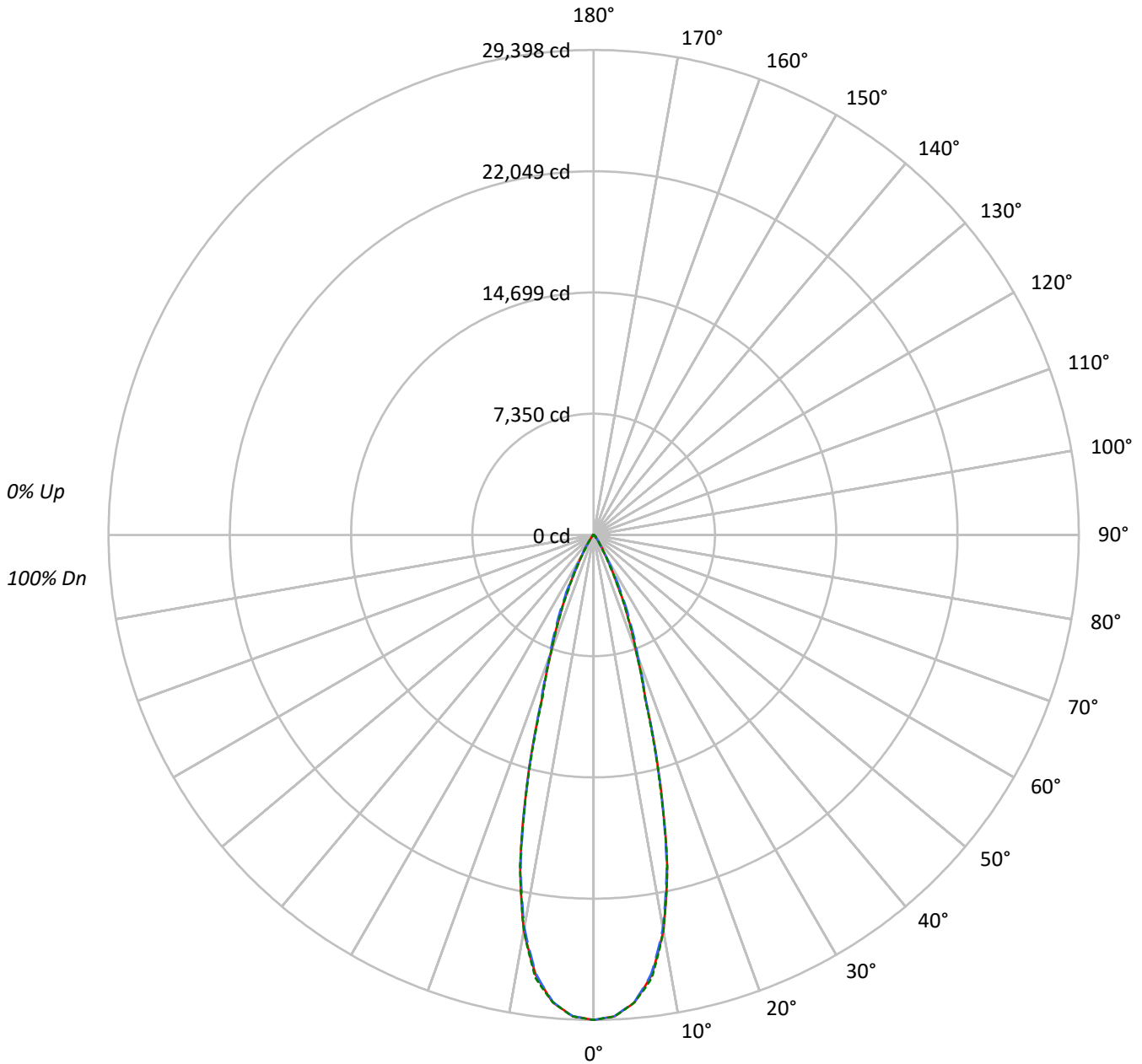
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	2250207	2250207	2250207
5°	2185609	2183058	2185724
10°	1893074	1879721	1892623
15°	1235138	1228497	1222324
20°	614177	637220	613354
25°	309380	348872	303038
30°	123871	134963	107927
35°	57458	55028	46123
40°	24810	27548	23361
45°	17504	21715	17655
50°	6014	15814	6359
55°	3470	6552	3657
60°	2434	2878	2434
65°	1576	1576	1576
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21715 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2585.1	28.3
10°-20°	4163.3	45.5
20°-30°	1799.1	19.7
30°-40°	410.0	4.5
40°-50°	140.8	1.5
50°-60°	34.4	0.4
60°-70°	8.9	0.1
70°-80°	0.9	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°	8547.5	93.5
0°-40°	8957.5	98.0
0°-60°	9132.7	99.9
0°-90°	9142.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9142.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	29398	29398	29398	29398	29398	
5°	28445	28418	28412	28471	28447	2587
15°	15587	15399	15503	15452	15425	4174
25°	3663	3802	4131	3705	3588	1753
35°	615	628	589	585	494	417
45°	162	201	201	201	163	115
55°	26	27	49	29	27	25
65°	9	9	9	9	9	9
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°	29397.8	29397.8	29397.8	29397.8	29397.8
2.5°	29203.0	29182.8	29194.3	29208.7	29214.5
5°	28445.2	28417.8	28412.0	28471.2	28446.7
7.5°	26916.7	26877.8	26818.6	26952.8	27078.4
10°	24356.3	24313.0	24184.5	24248.0	24350.5
12.5°	20576.2	20436.2	20433.3	20635.3	20607.9
15°	15586.6	15398.9	15502.8	15452.3	15424.9
17.5°	10481.5	10409.3	10547.9	10506.0	10325.6
20°	7540.0	7558.7	7822.9	7690.1	7529.9
22.5°	5502.0	5569.8	5883.0	5541.0	5415.4
25°	3663.2	3801.7	4130.8	3705.0	3588.1
27.5°	2253.0	2316.6	2650.0	2224.2	2160.7
30°	1401.5	1369.7	1527.0	1310.5	1221.1
32.5°	919.4	879.0	929.5	834.2	762.1
35°	614.9	627.9	588.9	584.6	493.6
37.5°	383.9	441.7	389.7	415.7	317.5
40°	248.3	320.4	275.7	304.5	233.8
42.5°	203.5	246.8	226.6	241.0	207.8
45°	161.7	200.6	200.6	200.6	163.1
47.5°	89.5	134.2	171.8	137.1	95.3
50°	50.5	67.8	132.8	70.7	53.4
52.5°	34.6	39.0	90.9	40.4	36.1
55°	26.0	27.4	49.1	28.9	27.4
57.5°	20.2	21.7	26.0	21.7	20.2
60°	15.9	15.9	18.8	17.3	15.9
62.5°	11.5	11.5	13.0	11.5	11.5
65°	8.7	8.7	8.7	8.7	8.7
67.5°	4.3	5.8	5.8	5.8	5.8
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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



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Scaled Data Report







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

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(END OF REPORT)