

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: P773460

Luminaire Tested: LD6D90BD010-EU6DR3070959050-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773460  
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-EU6DR3070959050-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 10130.2 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

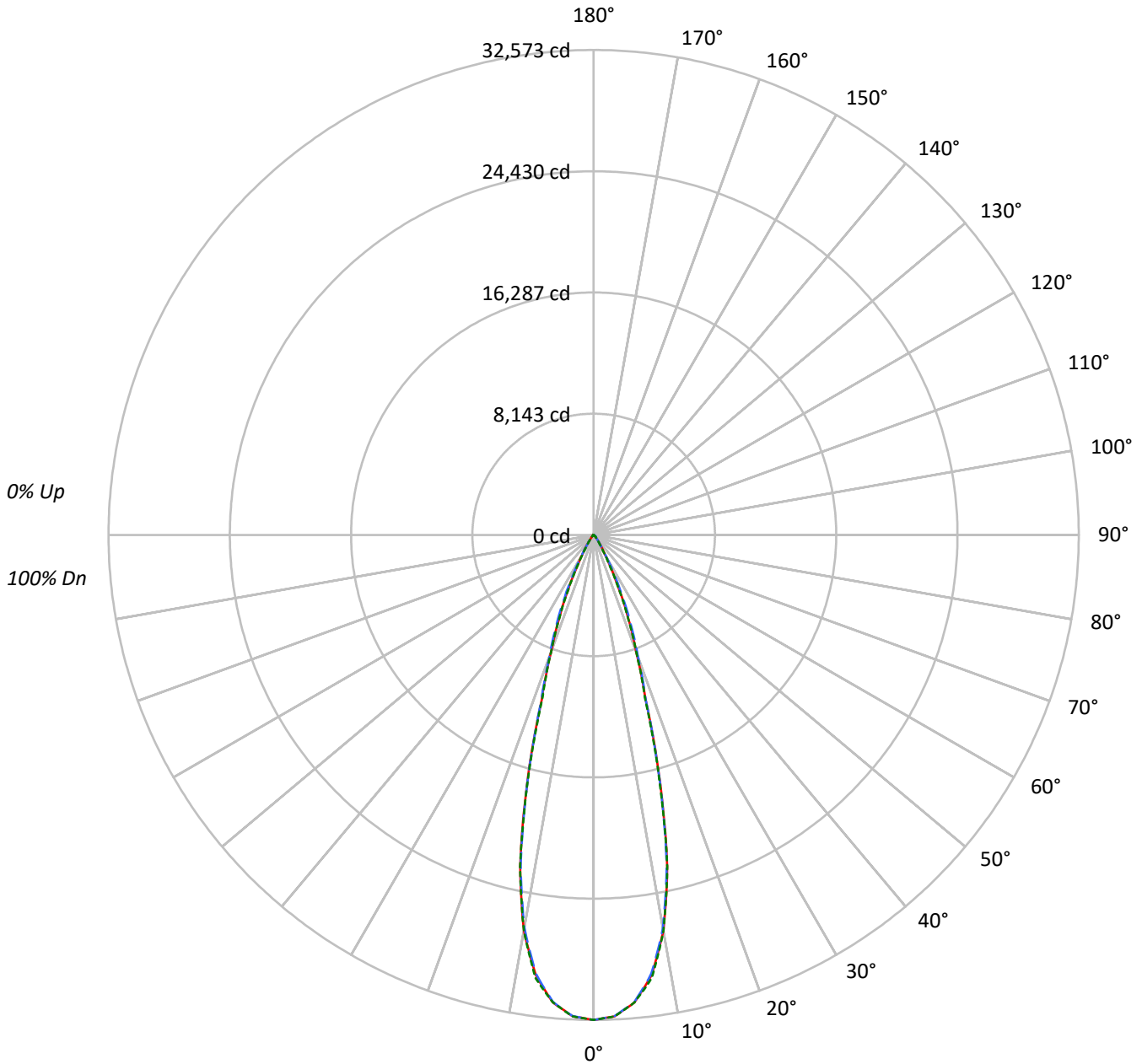
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	2493271	2493271	2493271
5°	2421695	2418867	2421818
10°	2097551	2082760	2097053
15°	1368552	1361198	1354352
20°	680514	706051	679602
25°	342800	386556	335773
30°	137253	149547	119584
35°	63662	60971	51104
40°	27488	30526	25889
45°	19387	24064	19561
50°	6669	17517	7050
55°	3843	7260	4057
60°	2694	3184	2694
65°	1739	1739	1739
70°	1074	716	1074
75°	0	473	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 24064 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2864.3	28.3
10°-20°	4613.0	45.5
20°-30°	1993.4	19.7
30°-40°	454.3	4.5
40°-50°	156.0	1.5
50°-60°	38.1	0.4
60°-70°	9.9	0.1
70°-80°	1.0	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°	9470.8	93.5
0°-40°	9925.1	98.0
0°-60°	10119.2	99.9
0°-90°	10130.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10130.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32573	32573	32573	32573	32573	
5°	31518	31487	31481	31546	31519	2867
15°	17270	17062	17177	17121	17091	4624
25°	4059	4212	4577	4105	3976	1943
35°	681	696	652	648	547	462
45°	179	222	222	222	181	127
55°	29	30	54	32	30	28
65°	10	10	10	10	10	9
75°	0	0	2	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32573.3	32573.3	32573.3	32573.3	32573.3
2.5°	32357.4	32335.0	32347.8	32363.8	32370.2
5°	31517.8	31487.4	31481.0	31546.5	31519.4
7.5°	29824.2	29781.0	29715.4	29864.2	30003.3
10°	26987.1	26939.1	26796.8	26867.2	26980.7
12.5°	22798.7	22643.6	22640.4	22864.3	22833.9
15°	17270.2	17062.3	17177.4	17121.4	17091.0
17.5°	11613.7	11533.7	11687.2	11640.8	11440.9
20°	8354.4	8375.2	8667.9	8520.7	8343.2
22.5°	6096.3	6171.5	6518.5	6139.5	6000.3
25°	4058.9	4212.4	4577.0	4105.2	3975.7
27.5°	2496.4	2566.8	2936.2	2464.4	2394.1
30°	1552.9	1517.7	1692.0	1452.1	1353.0
32.5°	1018.7	973.9	1029.9	924.4	844.4
35°	681.3	695.7	652.5	647.7	546.9
37.5°	425.4	489.4	431.8	460.6	351.8
40°	275.1	355.0	305.5	337.4	259.1
42.5°	225.5	273.5	251.1	267.1	230.3
45°	179.1	222.3	222.3	222.3	180.7
47.5°	99.2	148.7	190.3	151.9	105.5
50°	56.0	75.2	147.1	78.4	59.2
52.5°	38.4	43.2	100.8	44.8	40.0
55°	28.8	30.4	54.4	32.0	30.4
57.5°	22.4	24.0	28.8	24.0	22.4
60°	17.6	17.6	20.8	19.2	17.6
62.5°	12.8	12.8	14.4	12.8	12.8
65°	9.6	9.6	9.6	9.6	9.6
67.5°	4.8	6.4	6.4	6.4	6.4
70°	4.8	3.2	3.2	3.2	4.8
72.5°	3.2	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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

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)