

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: P754277

Luminaire Tested: LD4D80BD010-EU4DR6070959035-4LBDP1LI

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR6070959035-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8098.1 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

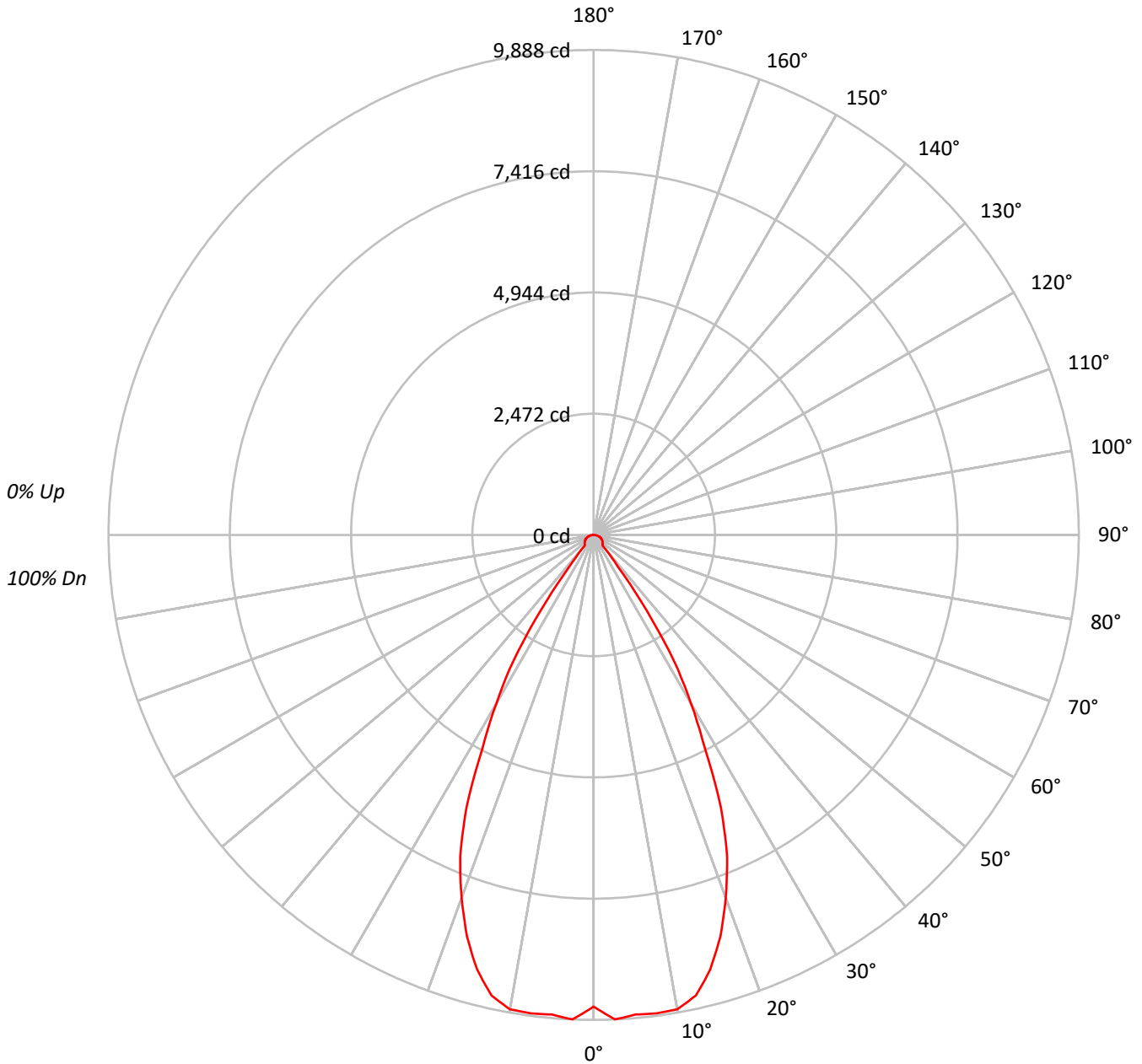
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

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

	0°
0°	1050815
5°	1076655
10°	1089659
15°	1038046
20°	915242
25°	740274
30°	500730
35°	250920
40°	40707
45°	39835
50°	40642
55°	41241
60°	42393
65°	43356
70°	44373
75°	44917
80°	43289
85°	36104

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 44917 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	938.2	11.6
10°-20°	2538.4	31.3
20°-30°	2731.1	33.7
30°-40°	1187.2	14.7
40°-50°	199.4	2.5
50°-60°	193.9	2.4
60°-70°	165.8	2.0
70°-80°	111.0	1.4
80°-90°	33.2	0.4
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°	6207.7	76.7
0°-40°	7394.9	91.3
0°-60°	7788.1	96.2
0°-90°	8098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8098.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9618	
5°	9816	938
15°	9177	2538
25°	6140	2731
35°	1881	1187
45°	258	199
55°	216	194
65°	168	166
75°	106	111
85°	29	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9617.5
2.5°	9887.9
5°	9816.5
7.5°	9839.0
10°	9821.5
12.5°	9618.8
15°	9176.9
17.5°	8583.7
20°	7871.5
22.5°	7109.2
25°	6140.5
27.5°	4911.4
30°	3968.9
32.5°	3059.0
35°	1881.2
37.5°	804.8
40°	285.4
42.5°	262.8
45°	257.8
47.5°	249.1
50°	239.1
52.5°	227.8
55°	216.5
57.5°	205.3
60°	194.0
62.5°	181.5
65°	167.7
67.5°	154.0
70°	138.9
72.5°	122.7
75°	106.4
77.5°	87.6
80°	68.8
82.5°	48.8
85°	28.8
87.5°	10.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)