

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: P754275

Luminaire Tested: LD4D80BD010-EU4DR6070959035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754275
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-EU4DR6070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6073.4 lumens
Efficiency: N/A
Efficacy: 77.0 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

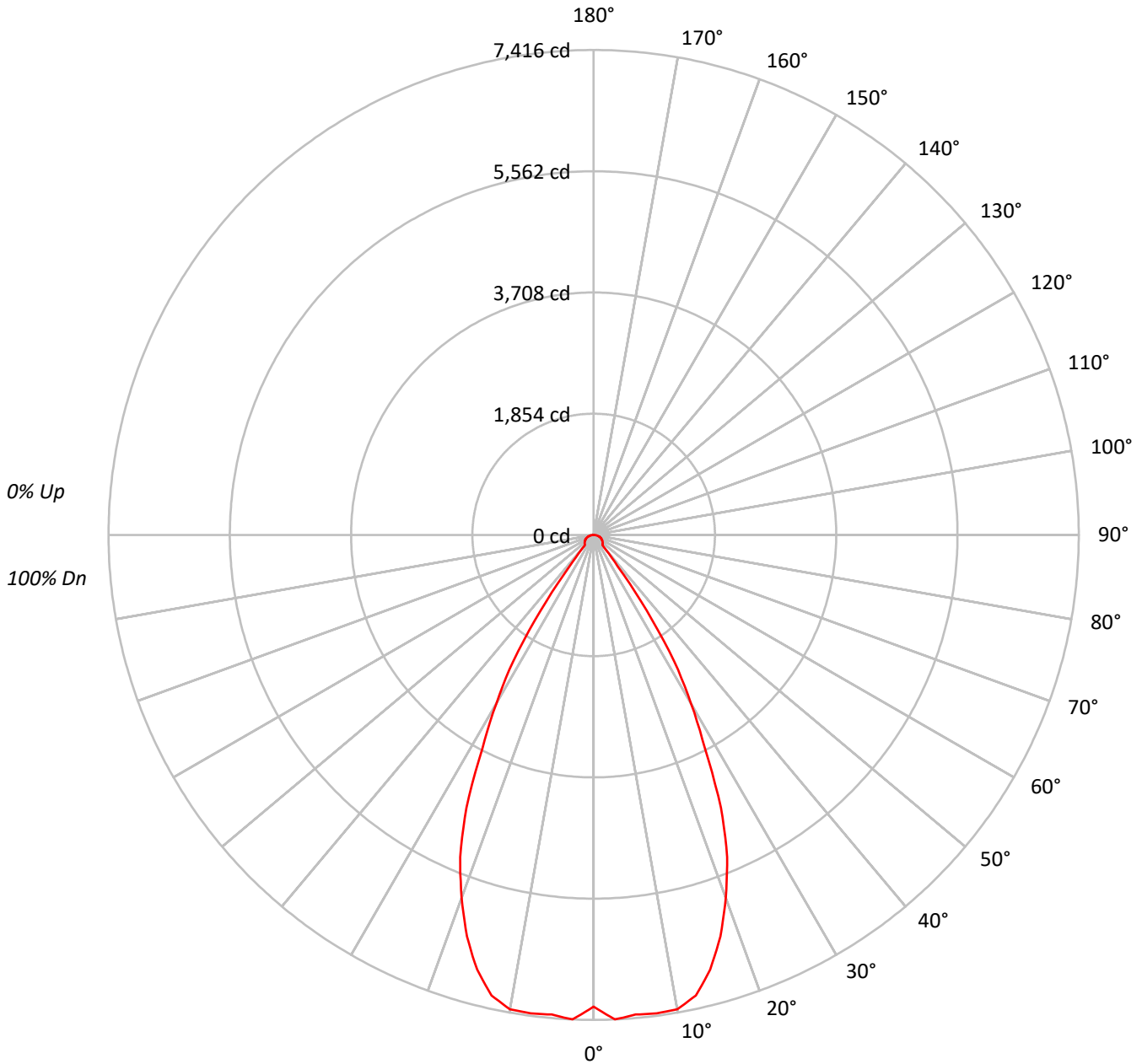
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	788087
5°	807472
10°	817219
15°	778514
20°	686405
25°	555184
30°	375538
35°	188190
40°	30523
45°	29884
50°	30477
55°	30936
60°	31795
65°	32523
70°	33287
75°	33688
80°	32467
85°	27078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 33688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.6	11.6
10°-20°	1903.7	31.3
20°-30°	2048.3	33.7
30°-40°	890.4	14.7
40°-50°	149.5	2.5
50°-60°	145.4	2.4
60°-70°	124.4	2.0
70°-80°	83.2	1.4
80°-90°	24.9	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°	4655.6	76.7
0°-40°	5546.0	91.3
0°-60°	5840.9	96.2
0°-90°	6073.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6073.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7213	
5°	7362	704
15°	6882	1904
25°	4605	2048
35°	1411	890
45°	193	150
55°	162	145
65°	126	124
75°	80	83
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7212.9
2.5°	7415.7
5°	7362.2
7.5°	7379.0
10°	7365.9
12.5°	7213.8
15°	6882.5
17.5°	6437.5
20°	5903.4
22.5°	5331.8
25°	4605.2
27.5°	3683.4
30°	2976.6
32.5°	2294.2
35°	1410.9
37.5°	603.6
40°	214.0
42.5°	197.1
45°	193.4
47.5°	186.8
50°	179.3
52.5°	170.8
55°	162.4
57.5°	153.9
60°	145.5
62.5°	136.1
65°	125.8
67.5°	115.5
70°	104.2
72.5°	92.0
75°	79.8
77.5°	65.7
80°	51.6
82.5°	36.6
85°	21.6
87.5°	7.5
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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