

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: P754304

Luminaire Tested: LD4D80BD010-EU4DR6070959050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754304
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-EU4DR6070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7363.3 lumens
Efficiency: N/A
Efficacy: 93.3 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

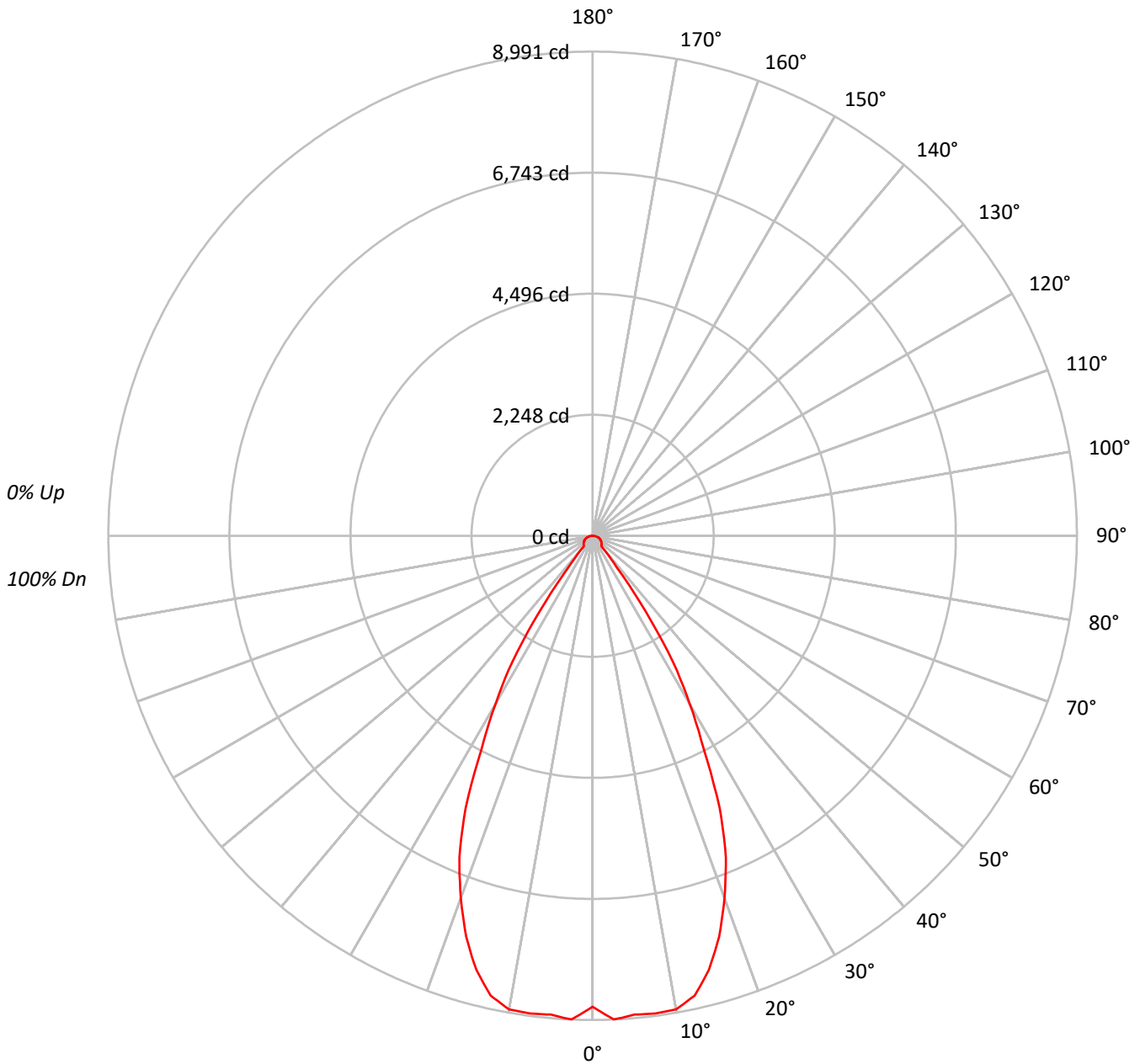
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	955463
5°	978954
10°	990784
15°	943855
20°	832188
25°	673100
30°	455299
35°	228151
40°	37012
45°	36219
50°	36954
55°	37508
60°	38547
65°	39426
70°	40347
75°	40822
80°	39388
85°	32845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 40822 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.1	11.6
10°-20°	2308.1	31.3
20°-30°	2483.3	33.7
30°-40°	1079.4	14.7
40°-50°	181.3	2.5
50°-60°	176.3	2.4
60°-70°	150.8	2.0
70°-80°	100.9	1.4
80°-90°	30.2	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°	5644.4	76.7
0°-40°	6723.8	91.3
0°-60°	7081.4	96.2
0°-90°	7363.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7363.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8745	
5°	8926	853
15°	8344	2308
25°	5583	2483
35°	1710	1079
45°	234	181
55°	197	176
65°	152	151
75°	97	101
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8744.8
2.5°	8990.6
5°	8925.7
7.5°	8946.2
10°	8930.3
12.5°	8745.9
15°	8344.2
17.5°	7804.8
20°	7157.2
22.5°	6464.1
25°	5583.3
27.5°	4465.7
30°	3608.8
32.5°	2781.4
35°	1710.5
37.5°	731.8
40°	259.5
42.5°	239.0
45°	234.4
47.5°	226.5
50°	217.4
52.5°	207.1
55°	196.9
57.5°	186.6
60°	176.4
62.5°	165.0
65°	152.5
67.5°	140.0
70°	126.3
72.5°	111.5
75°	96.7
77.5°	79.7
80°	62.6
82.5°	44.4
85°	26.2
87.5°	9.1
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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