

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: P755809

Luminaire Tested: LD4D90BD010-EU4DR6070959027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755809
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: LD4D90BD010-EU4DR6070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6588.5 lumens
Efficiency: N/A
Efficacy: 66.6 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

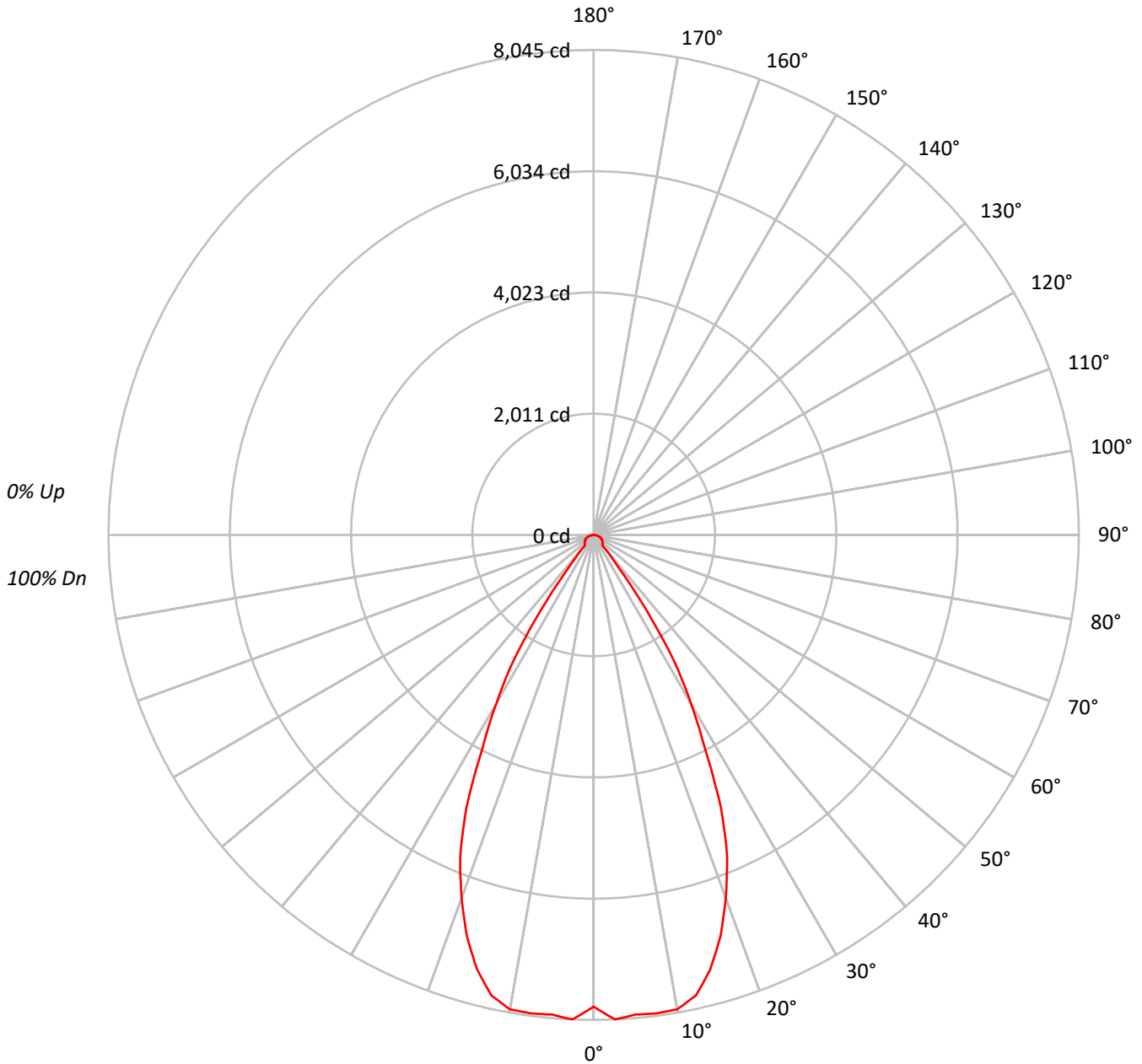
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	854922
5°	875944
10°	886527
15°	844540
20°	744623
25°	602273
30°	407382
35°	204142
40°	33119
45°	32418
50°	33061
55°	33564
60°	34483
65°	35290
70°	36099
75°	36558
80°	35236
85°	29335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 36558 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.3	11.6
10°-20°	2065.2	31.3
20°-30°	2222.0	33.7
30°-40°	965.8	14.7
40°-50°	162.2	2.5
50°-60°	157.7	2.4
60°-70°	134.9	2.0
70°-80°	90.3	1.4
80°-90°	27.0	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°	5050.5	76.7
0°-40°	6016.3	91.3
0°-60°	6336.3	96.2
0°-90°	6588.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6588.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7825	
5°	7986	763
15°	7466	2065
25°	4996	2222
35°	1530	966
45°	210	162
55°	176	158
65°	136	135
75°	87	90
85°	23	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7824.6
2.5°	8044.6
5°	7986.5
7.5°	8004.9
10°	7990.6
12.5°	7825.6
15°	7466.2
17.5°	6983.5
20°	6404.1
22.5°	5783.9
25°	4995.8
27.5°	3995.8
30°	3229.0
32.5°	2488.7
35°	1530.5
37.5°	654.8
40°	232.2
42.5°	213.8
45°	209.8
47.5°	202.6
50°	194.5
52.5°	185.3
55°	176.2
57.5°	167.0
60°	157.8
62.5°	147.7
65°	136.5
67.5°	125.3
70°	113.0
72.5°	99.8
75°	86.6
77.5°	71.3
80°	56.0
82.5°	39.7
85°	23.4
87.5°	8.1
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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