

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: P748165

Luminaire Tested: LD4D40BD010-EU4DR7040509027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR7040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2144.6 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

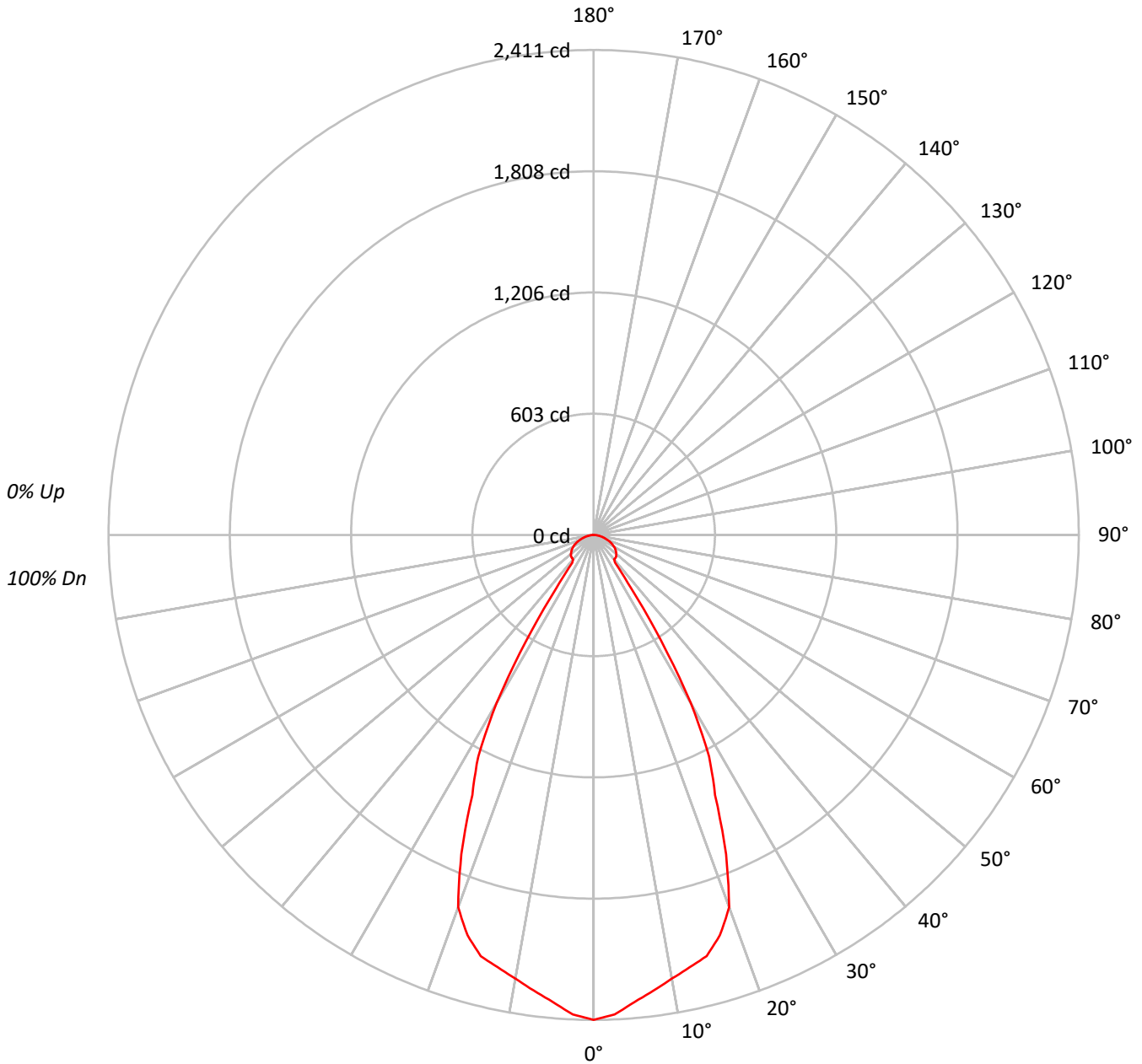
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	263439
5°	255616
10°	248486
15°	245222
20°	228988
25°	172033
30°	121609
35°	43083
40°	22650
45°	24120
50°	24987
55°	25450
60°	25611
65°	25078
70°	23672
75°	21910
80°	19443
85°	15796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 25622 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	10.3
10°-20°	603.0	28.1
20°-30°	664.1	31.0
30°-40°	253.7	11.8
40°-50°	119.8	5.6
50°-60°	119.1	5.6
60°-70°	95.4	4.4
70°-80°	54.8	2.6
80°-90°	14.9	0.7
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°	1486.9	69.3
0°-40°	1740.6	81.2
0°-60°	1979.5	92.3
0°-90°	2144.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2411	
5°	2331	220
15°	2168	603
25°	1427	664
35°	323	254
45°	156	120
55°	134	119
65°	97	95
75°	52	55
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2411.1
2.5°	2385.9
5°	2330.6
7.5°	2284.4
10°	2239.7
12.5°	2201.9
15°	2167.9
17.5°	2085.9
20°	1969.4
22.5°	1718.2
25°	1427.0
27.5°	1242.2
30°	963.9
32.5°	622.6
35°	323.0
37.5°	174.5
40°	158.8
42.5°	157.7
45°	156.1
47.5°	152.7
50°	147.0
52.5°	140.5
55°	133.6
57.5°	126.0
60°	117.2
62.5°	107.3
65°	97.0
67.5°	85.5
70°	74.1
72.5°	62.6
75°	51.9
77.5°	40.8
80°	30.9
82.5°	21.8
85°	12.6
87.5°	5.0
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)