

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: P747997

Luminaire Tested: LD4D40BD010-EU4DR6040509024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P747997
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: LD4D40BD010-EU4DR6040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3232.7 lumens
Efficiency: N/A
Efficacy: 91.8 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

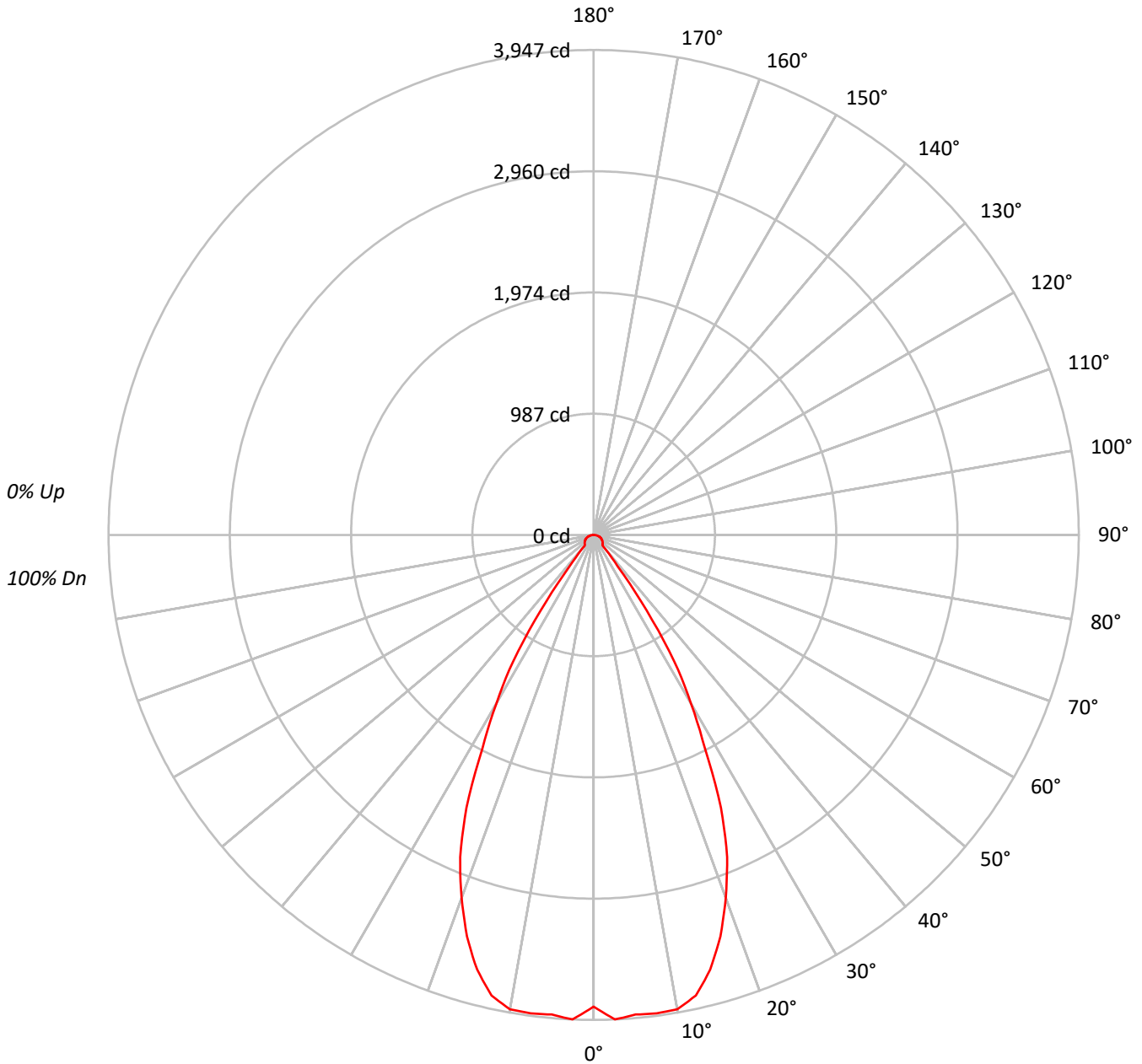
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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			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°	419474
5°	429796
10°	434987
15°	414386
20°	365353
25°	295507
30°	199893
35°	100170
40°	16246
45°	15900
50°	16216
55°	16458
60°	16914
65°	17322
70°	17730
75°	17941
80°	17303
85°	14417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 17941 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.5	11.6
10°-20°	1013.3	31.3
20°-30°	1090.2	33.7
30°-40°	473.9	14.7
40°-50°	79.6	2.5
50°-60°	77.4	2.4
60°-70°	66.2	2.0
70°-80°	44.3	1.4
80°-90°	13.3	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°	2478.1	76.7
0°-40°	2952.0	91.3
0°-60°	3108.9	96.2
0°-90°	3232.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3839	
5°	3919	375
15°	3663	1013
25°	2451	1090
35°	751	474
45°	103	80
55°	86	77
65°	67	66
75°	42	44
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3839.2
2.5°	3947.2
5°	3918.7
7.5°	3927.7
10°	3920.7
12.5°	3839.7
15°	3663.4
17.5°	3426.5
20°	3142.2
22.5°	2838.0
25°	2451.2
27.5°	1960.6
30°	1584.4
32.5°	1221.1
35°	751.0
37.5°	321.3
40°	113.9
42.5°	104.9
45°	102.9
47.5°	99.4
50°	95.4
52.5°	90.9
55°	86.4
57.5°	81.9
60°	77.4
62.5°	72.4
65°	67.0
67.5°	61.5
70°	55.5
72.5°	49.0
75°	42.5
77.5°	35.0
80°	27.5
82.5°	19.5
85°	11.5
87.5°	4.0
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)