

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: P747581

Luminaire Tested: LD4D40BD010-EU4DR3040509040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR3040509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3885.9 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

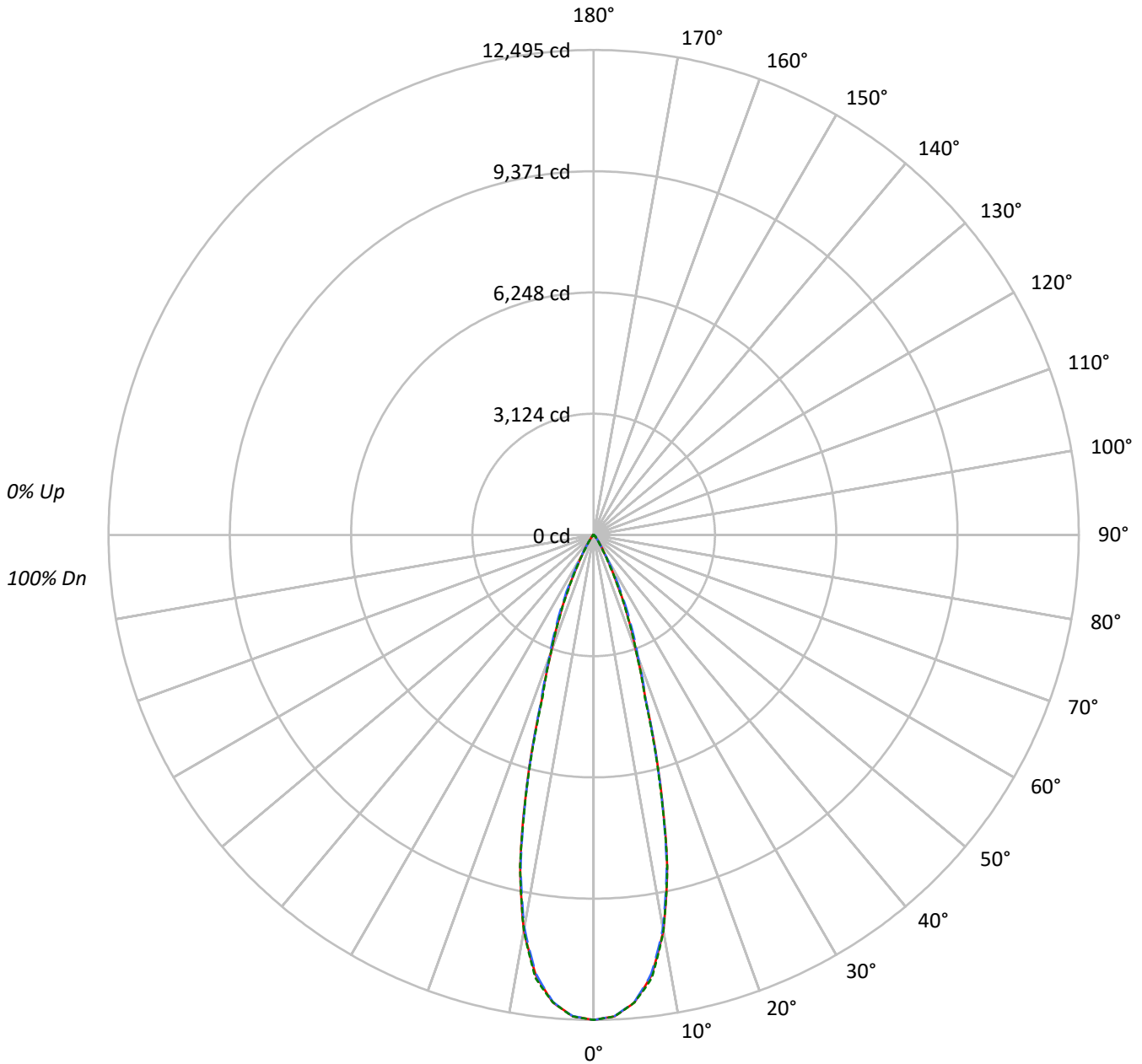
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	956417	956417	956417
5°	928960	927877	929006
10°	804616	798943	804430
15°	524973	522152	519529
20°	261041	270840	260699
25°	131498	148280	128804
30°	52651	57362	45872
35°	24416	23389	19604
40°	10542	11711	9932
45°	7437	9234	7502
50°	2560	6716	2703
55°	1468	2789	1561
60°	1026	1225	1026
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9234 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.8	28.3
10°-20°	1769.5	45.5
20°-30°	764.7	19.7
30°-40°	174.3	4.5
40°-50°	59.8	1.5
50°-60°	14.6	0.4
60°-70°	3.8	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
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°	3633.0	93.5
0°-40°	3807.3	98.0
0°-60°	3881.7	99.9
0°-90°	3885.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12495	12495	12495	12495	12495	
5°	12090	12078	12076	12101	12091	1100
15°	6625	6545	6589	6568	6556	1774
25°	1557	1616	1756	1575	1525	745
35°	261	267	250	248	210	177
45°	69	85	85	85	69	49
55°	11	12	21	12	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12495.1	12495.1	12495.1	12495.1	12495.1
2.5°	12412.3	12403.7	12408.6	12414.7	12417.2
5°	12090.2	12078.5	12076.1	12101.2	12090.8
7.5°	11440.5	11424.0	11398.8	11455.9	11509.2
10°	10352.2	10333.8	10279.2	10306.2	10349.8
12.5°	8745.6	8686.1	8684.8	8770.7	8759.1
15°	6624.8	6545.1	6589.2	6567.8	6556.1
17.5°	4455.0	4424.3	4483.2	4465.4	4388.7
20°	3204.7	3212.7	3325.0	3268.5	3200.5
22.5°	2338.5	2367.4	2500.5	2355.1	2301.7
25°	1557.0	1615.9	1755.7	1574.8	1525.1
27.5°	957.6	984.6	1126.3	945.4	918.4
30°	595.7	582.2	649.0	557.0	519.0
32.5°	390.8	373.6	395.1	354.6	323.9
35°	261.3	266.9	250.3	248.5	209.8
37.5°	163.2	187.7	165.6	176.7	135.0
40°	105.5	136.2	117.2	129.4	99.4
42.5°	86.5	104.9	96.3	102.4	88.3
45°	68.7	85.3	85.3	85.3	69.3
47.5°	38.0	57.1	73.0	58.3	40.5
50°	21.5	28.8	56.4	30.1	22.7
52.5°	14.7	16.6	38.6	17.2	15.3
55°	11.0	11.7	20.9	12.3	11.7
57.5°	8.6	9.2	11.0	9.2	8.6
60°	6.7	6.7	8.0	7.4	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.5	2.5	2.5	2.5
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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