

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: P746766

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746766
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: LD4D35BD010-EU4DR3020359027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3188.5 lumens
Efficiency: N/A
Efficacy: 103.5 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

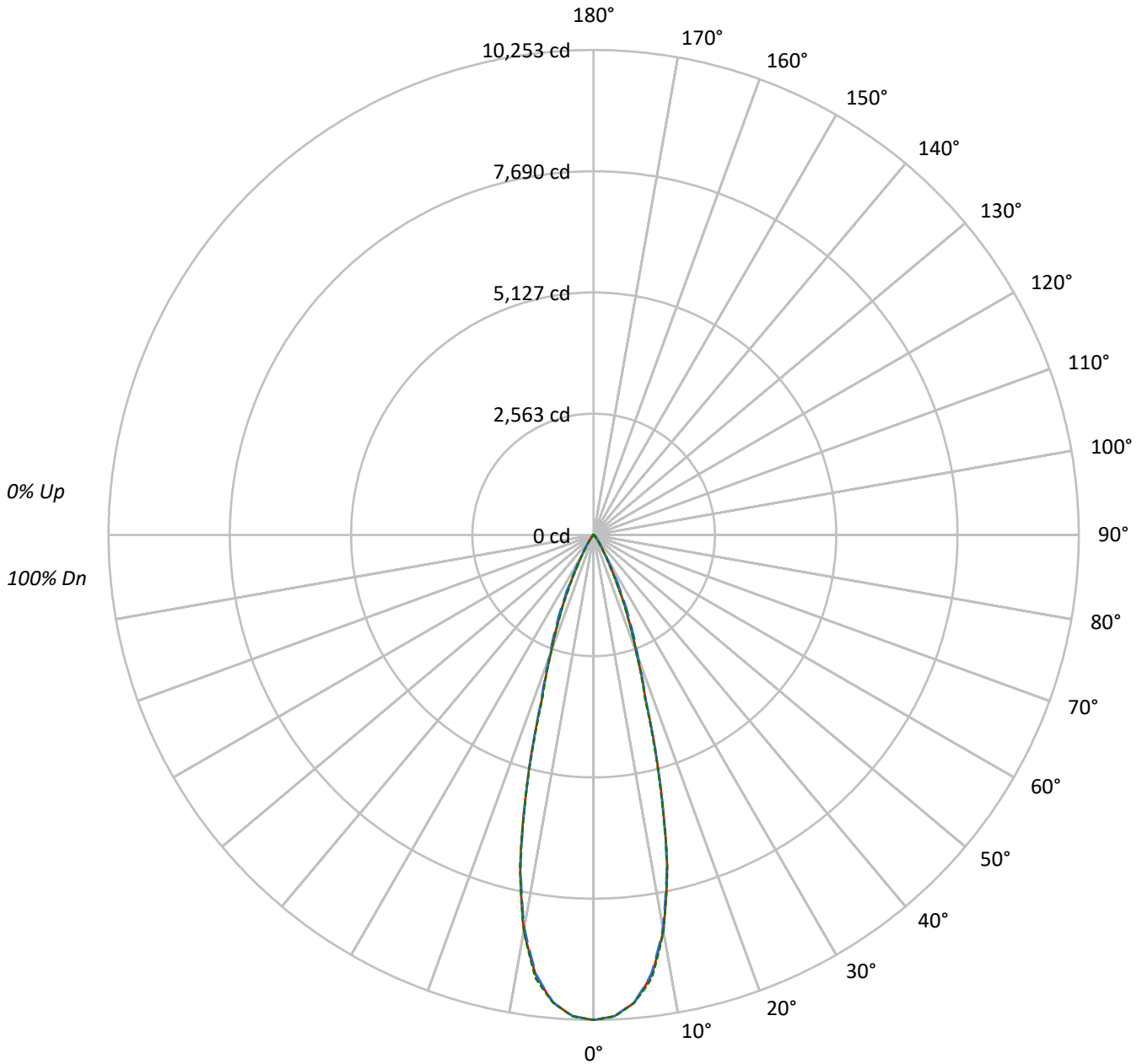
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	784776	784776	784776
5°	762249	761358	762288
10°	660220	655565	660065
15°	430760	428446	426291
20°	214196	222236	213911
25°	107901	121676	105689
30°	43202	47074	37643
35°	20034	19193	16091
40°	8653	9602	8144
45°	6105	7577	6159
50°	2096	5513	2215
55°	1214	2282	1281
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7577 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	901.6	28.3
10°-20°	1452.0	45.5
20°-30°	627.4	19.7
30°-40°	143.0	4.5
40°-50°	49.1	1.5
50°-60°	12.0	0.4
60°-70°	3.1	0.1
70°-80°	0.3	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°	2981.0	93.5
0°-40°	3124.0	98.0
0°-60°	3185.1	99.9
0°-90°	3188.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3188.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10253	10253	10253	10253	10253	
5°	9920	9911	9909	9930	9921	902
15°	5436	5370	5407	5389	5380	1456
25°	1278	1326	1441	1292	1251	612
35°	214	219	205	204	172	145
45°	56	70	70	70	57	40
55°	9	10	17	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10252.7	10252.7	10252.7	10252.7	10252.7
2.5°	10184.7	10177.7	10181.7	10186.7	10188.8
5°	9920.5	9910.9	9908.9	9929.5	9921.0
7.5°	9387.4	9373.8	9353.2	9400.0	9443.8
10°	8494.4	8479.3	8434.5	8456.7	8492.4
12.5°	7176.1	7127.2	7126.2	7196.7	7187.1
15°	5435.9	5370.5	5406.7	5389.1	5379.5
17.5°	3655.5	3630.3	3678.6	3664.0	3601.1
20°	2629.6	2636.2	2728.3	2682.0	2626.1
22.5°	1918.9	1942.5	2051.7	1932.4	1888.7
25°	1277.6	1325.9	1440.7	1292.2	1251.4
27.5°	785.8	807.9	924.2	775.7	753.5
30°	488.8	477.7	532.6	457.1	425.9
32.5°	320.6	306.6	324.2	290.9	265.8
35°	214.4	219.0	205.4	203.9	172.2
37.5°	133.9	154.0	135.9	145.0	110.7
40°	86.6	111.7	96.1	106.2	81.5
42.5°	71.0	86.1	79.0	84.1	72.5
45°	56.4	70.0	70.0	70.0	56.9
47.5°	31.2	46.8	59.9	47.8	33.2
50°	17.6	23.7	46.3	24.7	18.6
52.5°	12.1	13.6	31.7	14.1	12.6
55°	9.1	9.6	17.1	10.1	9.6
57.5°	7.0	7.6	9.1	7.6	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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