

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: P746765

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746765
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-EU4DR3020359027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2989.5 lumens
Efficiency: N/A
Efficacy: 97.1 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

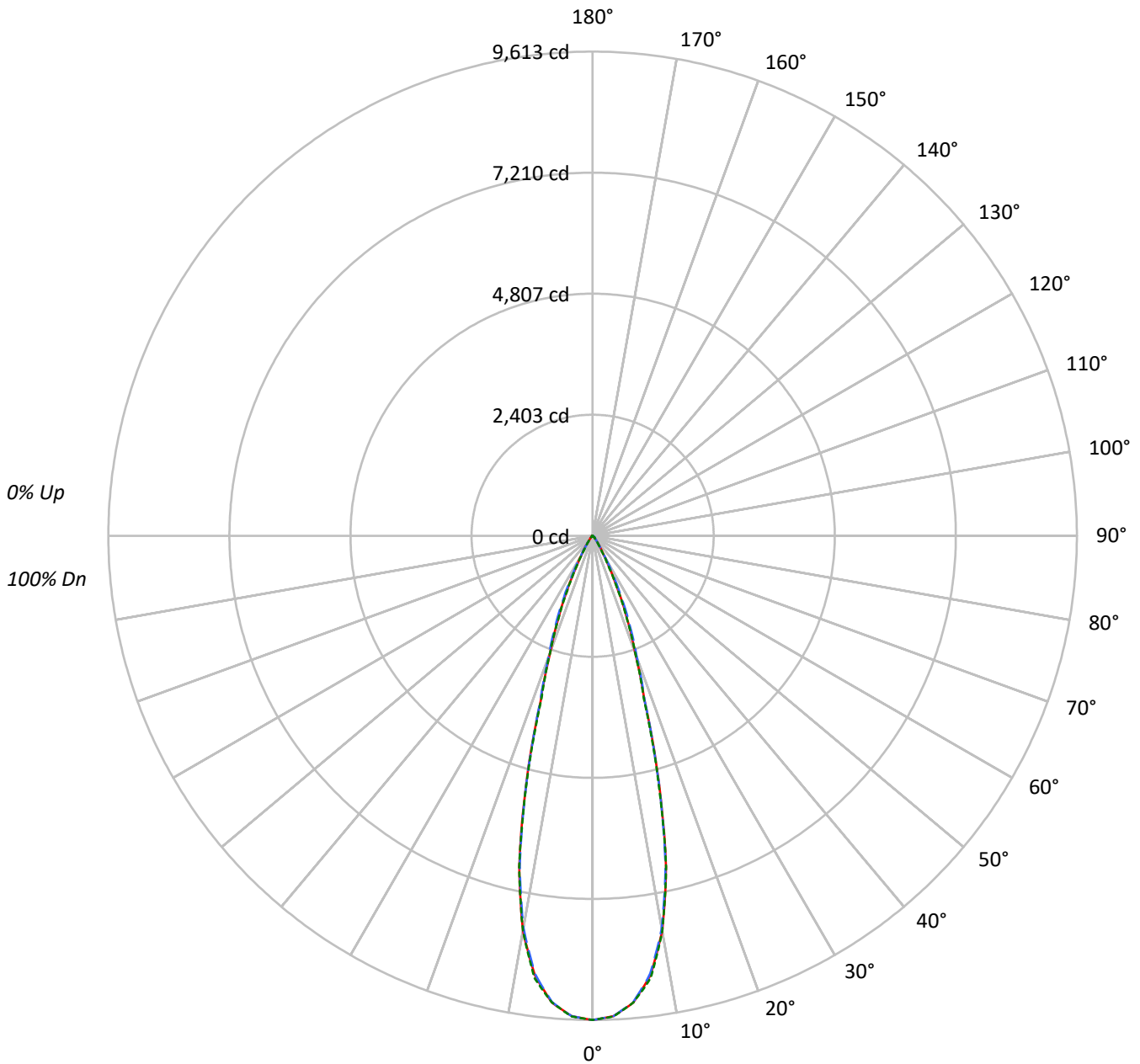
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	735789	735789	735789
5°	714665	713835	714703
10°	619011	614643	618863
15°	403873	401701	399681
20°	200829	208364	200560
25°	101162	114075	99093
30°	40507	44130	35292
35°	18791	17997	15082
40°	8114	9003	7644
45°	5726	7101	5770
50°	1965	5168	2084
55°	1134	2135	1201
60°	796	934	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.3	28.3
10°-20°	1361.3	45.5
20°-30°	588.3	19.7
30°-40°	134.1	4.5
40°-50°	46.0	1.5
50°-60°	11.2	0.4
60°-70°	2.9	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°	2794.9	93.5
0°-40°	2929.0	98.0
0°-60°	2986.3	99.9
0°-90°	2989.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9613	9613	9613	9613	9613	
5°	9301	9292	9290	9310	9302	846
15°	5097	5035	5069	5053	5044	1365
25°	1198	1243	1351	1212	1173	573
35°	201	205	193	191	161	136
45°	53	66	66	66	53	38
55°	8	9	16	9	9	8
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°	9612.7	9612.7	9612.7	9612.7	9612.7
2.5°	9549.0	9542.4	9546.2	9550.9	9552.8
5°	9301.2	9292.2	9290.4	9309.7	9301.7
7.5°	8801.4	8788.7	8769.3	8813.2	8854.3
10°	7964.2	7950.0	7908.0	7928.8	7962.3
12.5°	6728.1	6682.4	6681.4	6747.5	6738.5
15°	5096.6	5035.2	5069.2	5052.7	5043.7
17.5°	3427.3	3403.7	3449.0	3435.3	3376.3
20°	2465.5	2471.6	2558.0	2514.6	2462.2
22.5°	1799.1	1821.3	1923.7	1811.8	1770.8
25°	1197.8	1243.1	1350.7	1211.5	1173.3
27.5°	736.7	757.5	866.5	727.3	706.5
30°	458.3	447.9	499.3	428.5	399.3
32.5°	300.6	287.4	303.9	272.8	249.2
35°	201.1	205.3	192.6	191.1	161.4
37.5°	125.5	144.4	127.4	135.9	103.8
40°	81.2	104.8	90.1	99.6	76.5
42.5°	66.5	80.7	74.1	78.8	68.0
45°	52.9	65.6	65.6	65.6	53.3
47.5°	29.3	43.9	56.2	44.8	31.1
50°	16.5	22.2	43.4	23.1	17.5
52.5°	11.3	12.7	29.7	13.2	11.8
55°	8.5	9.0	16.0	9.4	9.0
57.5°	6.6	7.1	8.5	7.1	6.6
60°	5.2	5.2	6.1	5.7	5.2
62.5°	3.8	3.8	4.2	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	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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