

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: P746818

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746818
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-EU4DR3020359050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3499.5 lumens
Efficiency: N/A
Efficacy: 113.6 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

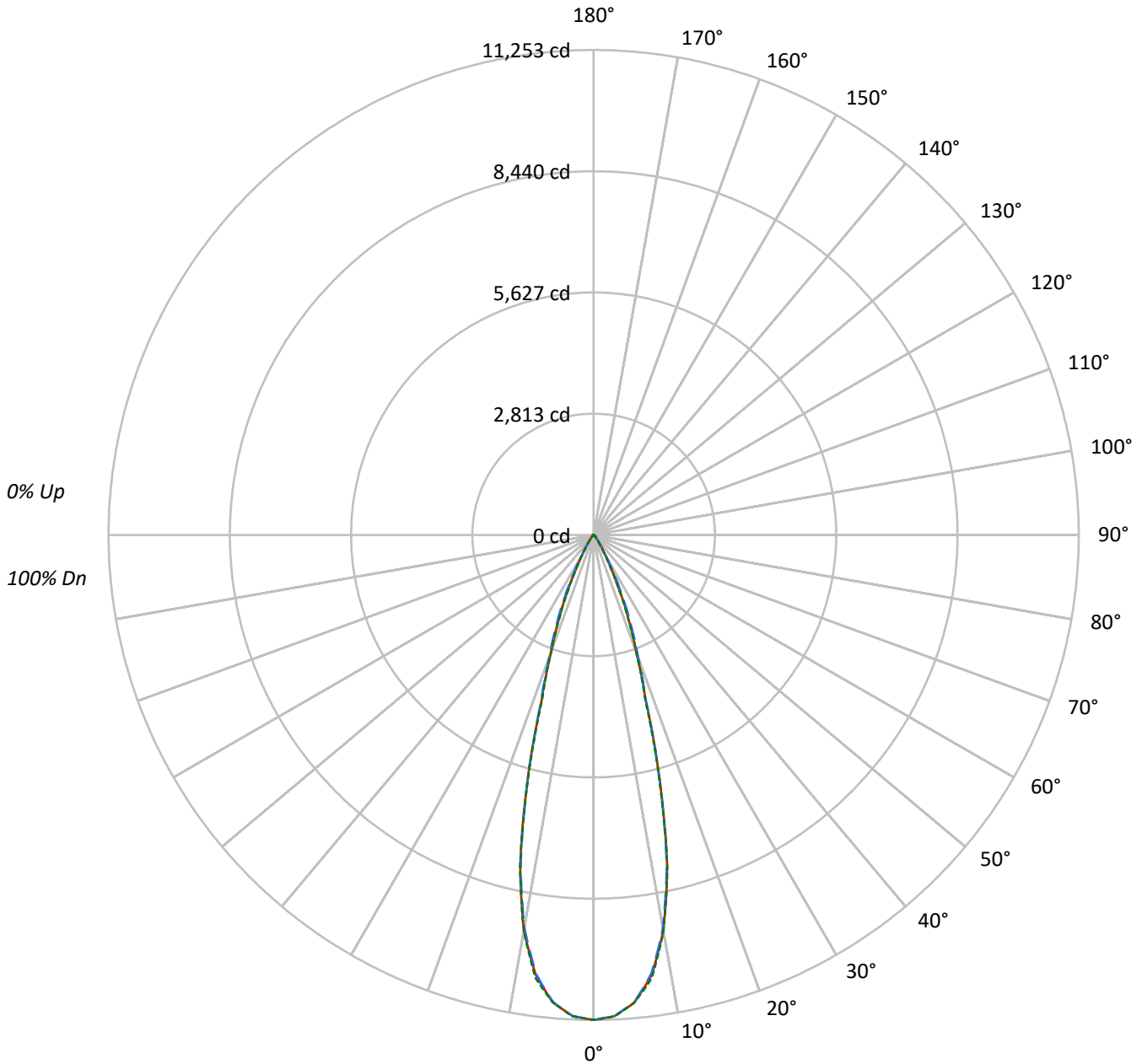
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	861312	861312	861312
5°	836588	835612	836626
10°	724607	719501	724436
15°	472775	470231	467870
20°	235090	243911	234772
25°	118425	133542	115992
30°	47410	51661	41311
35°	21996	21062	17651
40°	9492	10542	8943
45°	6701	8314	6755
50°	2298	6049	2429
55°	1321	2509	1401
60°	934	1102	934
65°	598	598	598
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8314 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.5	28.3
10°-20°	1593.6	45.5
20°-30°	688.6	19.7
30°-40°	157.0	4.5
40°-50°	53.9	1.5
50°-60°	13.2	0.4
60°-70°	3.4	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°	3271.7	93.5
0°-40°	3428.7	98.0
0°-60°	3495.7	99.9
0°-90°	3499.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11253	11253	11253	11253	11253	
5°	10888	10878	10875	10898	10888	990
15°	5966	5894	5934	5915	5904	1597
25°	1402	1455	1581	1418	1373	671
35°	235	240	225	224	189	160
45°	62	77	77	77	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
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°	11252.6	11252.6	11252.6	11252.6	11252.6
2.5°	11178.0	11170.3	11174.7	11180.2	11182.4
5°	10888.0	10877.5	10875.3	10897.9	10888.5
7.5°	10302.9	10288.0	10265.3	10316.7	10364.8
10°	9322.8	9306.3	9257.1	9281.4	9320.6
12.5°	7875.9	7822.3	7821.2	7898.6	7888.1
15°	5966.1	5894.2	5934.0	5914.7	5904.2
17.5°	4012.0	3984.4	4037.4	4021.4	3952.3
20°	2886.1	2893.3	2994.4	2943.5	2882.2
22.5°	2106.0	2132.0	2251.8	2120.9	2072.8
25°	1402.2	1455.2	1581.2	1418.2	1373.4
27.5°	862.4	886.7	1014.3	851.3	827.0
30°	536.4	524.3	584.5	501.6	467.4
32.5°	351.9	336.5	355.8	319.3	291.7
35°	235.4	240.3	225.4	223.7	188.9
37.5°	147.0	169.1	149.2	159.1	121.5
40°	95.0	122.6	105.5	116.6	89.5
42.5°	77.9	94.5	86.7	92.3	79.6
45°	61.9	76.8	76.8	76.8	62.4
47.5°	34.3	51.4	65.7	52.5	36.5
50°	19.3	26.0	50.8	27.1	20.4
52.5°	13.3	14.9	34.8	15.5	13.8
55°	9.9	10.5	18.8	11.0	10.5
57.5°	7.7	8.3	9.9	8.3	7.7
60°	6.1	6.1	7.2	6.6	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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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