

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: P746761

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746761
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-EU4DR3020359027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2438.7 lumens
Efficiency: N/A
Efficacy: 79.2 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

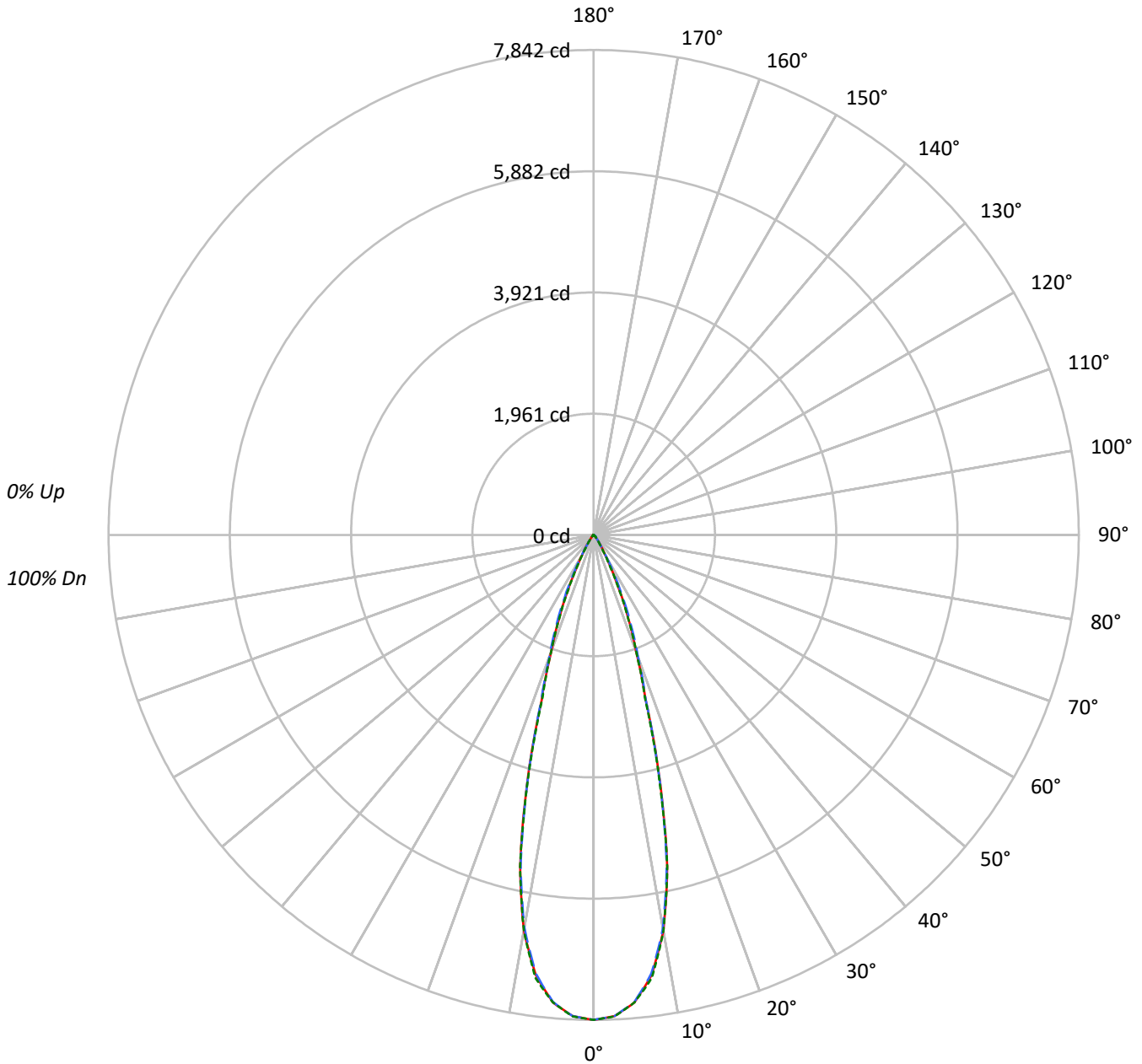
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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					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	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°	600223	600223	600223
5°	582991	582315	583022
10°	504959	501399	504842
15°	329463	327696	326048
20°	163824	169974	163604
25°	82522	93062	80833
30°	33038	35999	28787
35°	15325	14680	12306
40°	6615	7344	6235
45°	4666	5791	4709
50°	1608	4215	1691
55°	921	1748	974
60°	643	765	643
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5791 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.6	28.3
10°-20°	1110.5	45.5
20°-30°	479.9	19.7
30°-40°	109.4	4.5
40°-50°	37.5	1.5
50°-60°	9.2	0.4
60°-70°	2.4	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°	2280.0	93.5
0°-40°	2389.4	98.0
0°-60°	2436.1	99.9
0°-90°	2438.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7842	7842	7842	7842	7842	
5°	7588	7580	7579	7594	7588	690
15°	4158	4108	4135	4122	4114	1113
25°	977	1014	1102	988	957	468
35°	164	168	157	156	132	111
45°	43	54	54	54	44	31
55°	7	7	13	8	7	7
65°	2	2	2	2	2	2
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°	7841.6	7841.6	7841.6	7841.6	7841.6
2.5°	7789.7	7784.3	7787.4	7791.2	7792.8
5°	7587.5	7580.2	7578.7	7594.5	7587.9
7.5°	7179.8	7169.4	7153.7	7189.5	7223.0
10°	6496.8	6485.3	6451.0	6468.0	6495.3
12.5°	5488.5	5451.2	5450.4	5504.3	5497.0
15°	4157.6	4107.5	4135.3	4121.8	4114.5
17.5°	2795.9	2776.6	2813.6	2802.4	2754.3
20°	2011.2	2016.2	2086.7	2051.3	2008.5
22.5°	1467.6	1485.7	1569.3	1478.0	1444.5
25°	977.1	1014.1	1101.9	988.3	957.1
27.5°	601.0	617.9	706.9	593.3	576.3
30°	373.8	365.4	407.3	349.6	325.7
32.5°	245.2	234.5	247.9	222.5	203.3
35°	164.0	167.5	157.1	155.9	131.7
37.5°	102.4	117.8	103.9	110.9	84.7
40°	66.2	85.5	73.5	81.2	62.4
42.5°	54.3	65.8	60.4	64.3	55.4
45°	43.1	53.5	53.5	53.5	43.5
47.5°	23.9	35.8	45.8	36.6	25.4
50°	13.5	18.1	35.4	18.9	14.2
52.5°	9.2	10.4	24.3	10.8	9.6
55°	6.9	7.3	13.1	7.7	7.3
57.5°	5.4	5.8	6.9	5.8	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.5	1.5	1.5	1.5
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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