

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: P746813

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746813
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-EU4DR3020359050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2676.5 lumens
Efficiency: N/A
Efficacy: 86.9 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

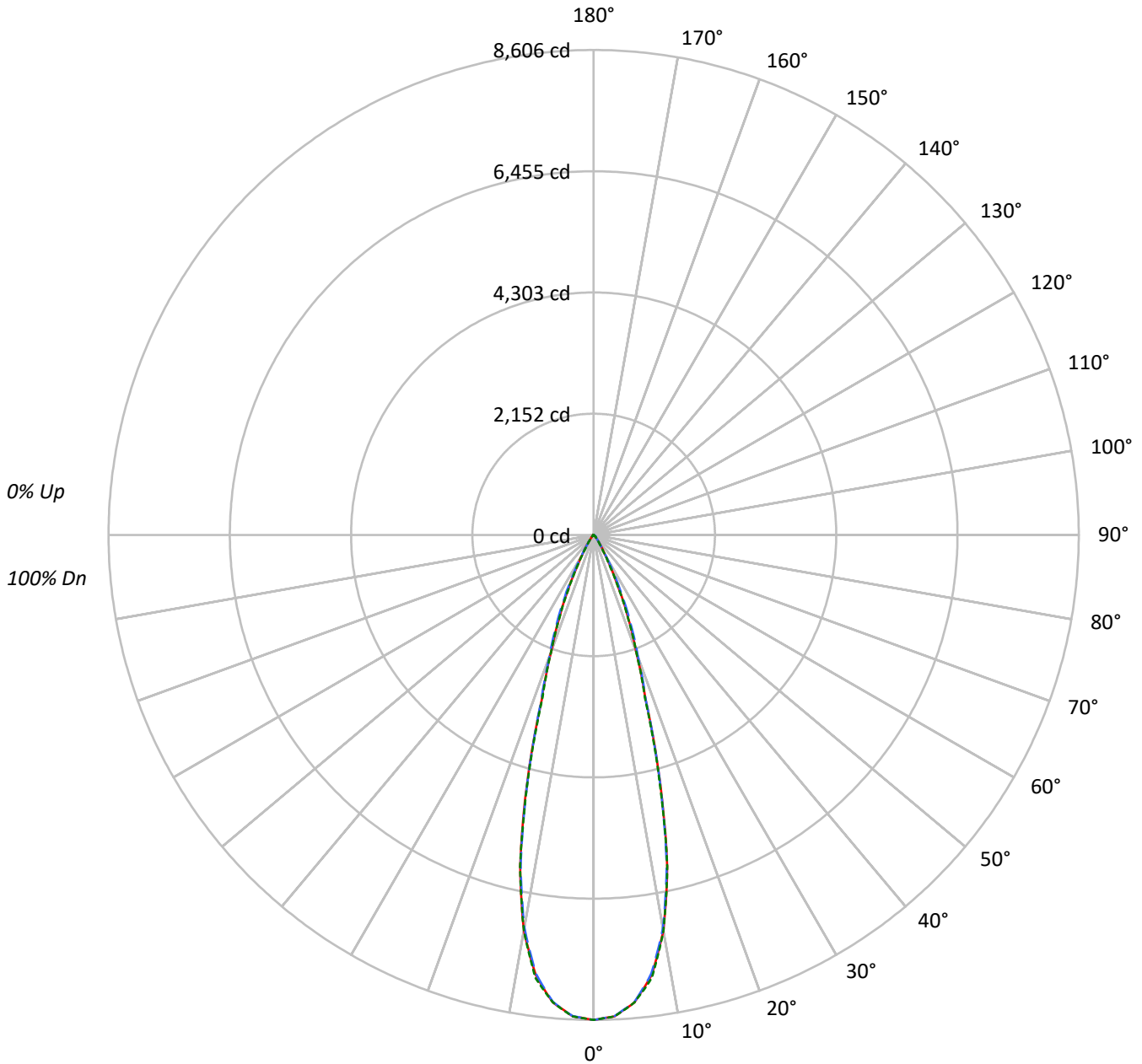
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	658763	658763	658763
5°	639850	639105	639888
10°	554212	550303	554080
15°	361596	359655	357848
20°	179805	186550	179561
25°	90571	102133	88713
30°	36264	39517	31598
35°	16820	16109	13502
40°	7264	8064	6845
45°	5120	6354	5163
50°	1762	4632	1858
55°	1014	1922	1068
60°	704	842	704
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6354 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.8	28.3
10°-20°	1218.8	45.5
20°-30°	526.7	19.7
30°-40°	120.0	4.5
40°-50°	41.2	1.5
50°-60°	10.1	0.4
60°-70°	2.6	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°	2502.3	93.5
0°-40°	2622.4	98.0
0°-60°	2673.7	99.9
0°-90°	2676.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2676.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8606	8606	8606	8606	8606	
5°	8328	8320	8318	8335	8328	757
15°	4563	4508	4539	4524	4516	1222
25°	1072	1113	1209	1085	1050	513
35°	180	184	172	171	144	122
45°	47	59	59	59	48	34
55°	8	8	14	8	8	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°	8606.4	8606.4	8606.4	8606.4	8606.4
2.5°	8549.4	8543.5	8546.8	8551.1	8552.8
5°	8327.5	8319.5	8317.8	8335.1	8328.0
7.5°	7880.1	7868.7	7851.3	7890.6	7927.4
10°	7130.5	7117.8	7080.2	7098.8	7128.8
12.5°	6023.8	5982.8	5982.0	6041.1	6033.1
15°	4563.1	4508.1	4538.6	4523.8	4515.8
17.5°	3068.5	3047.4	3088.0	3075.7	3022.9
20°	2207.4	2212.9	2290.2	2251.3	2204.4
22.5°	1610.7	1630.6	1722.3	1622.2	1585.4
25°	1072.4	1113.0	1209.3	1084.7	1050.4
27.5°	659.6	678.2	775.8	651.1	632.6
30°	410.3	401.0	447.1	383.7	357.5
32.5°	269.2	257.3	272.1	244.2	223.1
35°	180.0	183.8	172.4	171.1	144.5
37.5°	112.4	129.3	114.1	121.7	93.0
40°	72.7	93.8	80.7	89.2	68.5
42.5°	59.6	72.3	66.3	70.6	60.8
45°	47.3	58.7	58.7	58.7	47.7
47.5°	26.2	39.3	50.3	40.1	27.9
50°	14.8	19.9	38.9	20.7	15.6
52.5°	10.1	11.4	26.6	11.8	10.6
55°	7.6	8.0	14.4	8.5	8.0
57.5°	5.9	6.3	7.6	6.3	5.9
60°	4.6	4.6	5.5	5.1	4.6
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
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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