

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: P750521

Luminaire Tested: LD4D55D010-EU4DR7055659030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P750521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR7055659030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4314.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

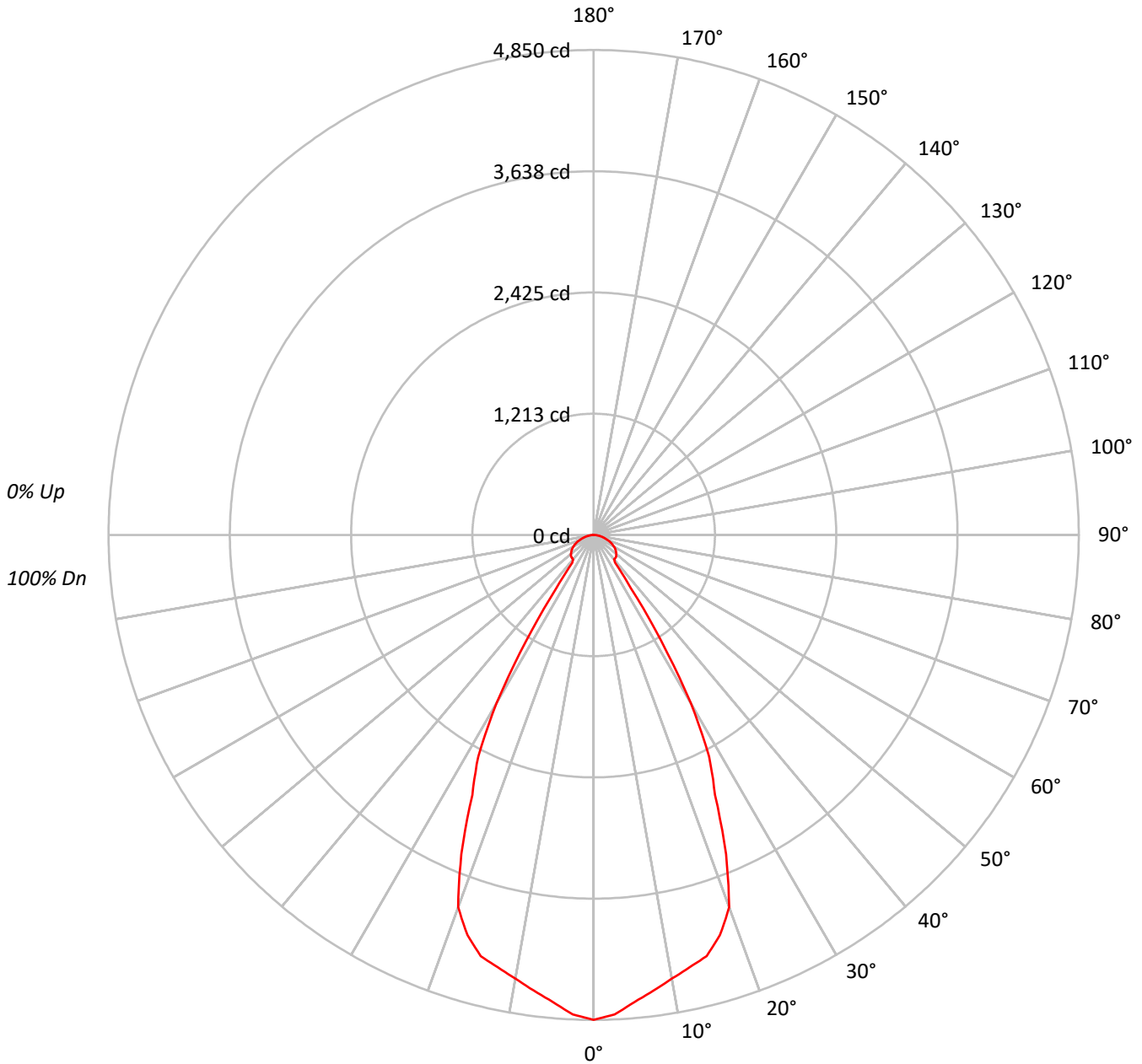
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	529937
5°	514182
10°	499857
15°	493295
20°	460638
25°	346056
30°	244631
35°	86659
40°	45570
45°	48534
50°	50246
55°	51204
60°	51527
65°	50440
70°	47599
75°	44073
80°	39137
85°	31717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 51529 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	10.3
10°-20°	1212.9	28.1
20°-30°	1335.9	31.0
30°-40°	510.4	11.8
40°-50°	241.0	5.6
50°-60°	239.6	5.6
60°-70°	191.8	4.4
70°-80°	110.2	2.6
80°-90°	30.0	0.7
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°	2991.0	69.3
0°-40°	3501.4	81.2
0°-60°	3982.0	92.3
0°-90°	4314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4314.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4850	
5°	4688	442
15°	4361	1213
25°	2870	1336
35°	650	510
45°	314	241
55°	269	240
65°	195	192
75°	104	110
85°	25	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4850.2
2.5°	4799.5
5°	4688.1
7.5°	4595.2
10°	4505.4
12.5°	4429.3
15°	4361.0
17.5°	4195.9
20°	3961.7
22.5°	3456.4
25°	2870.5
27.5°	2498.8
30°	1939.0
32.5°	1252.5
35°	649.7
37.5°	350.9
40°	319.5
42.5°	317.1
45°	314.1
47.5°	307.2
50°	295.6
52.5°	282.6
55°	268.8
57.5°	253.4
60°	235.8
62.5°	215.8
65°	195.1
67.5°	172.0
70°	149.0
72.5°	125.9
75°	104.4
77.5°	82.2
80°	62.2
82.5°	43.8
85°	25.3
87.5°	10.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)