

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: P750495

Luminaire Tested: LD4D55D010-EU4DR7055659024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P750495
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-EU4DR7055659024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3696.6 lumens
Efficiency: N/A
Efficacy: 63.5 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

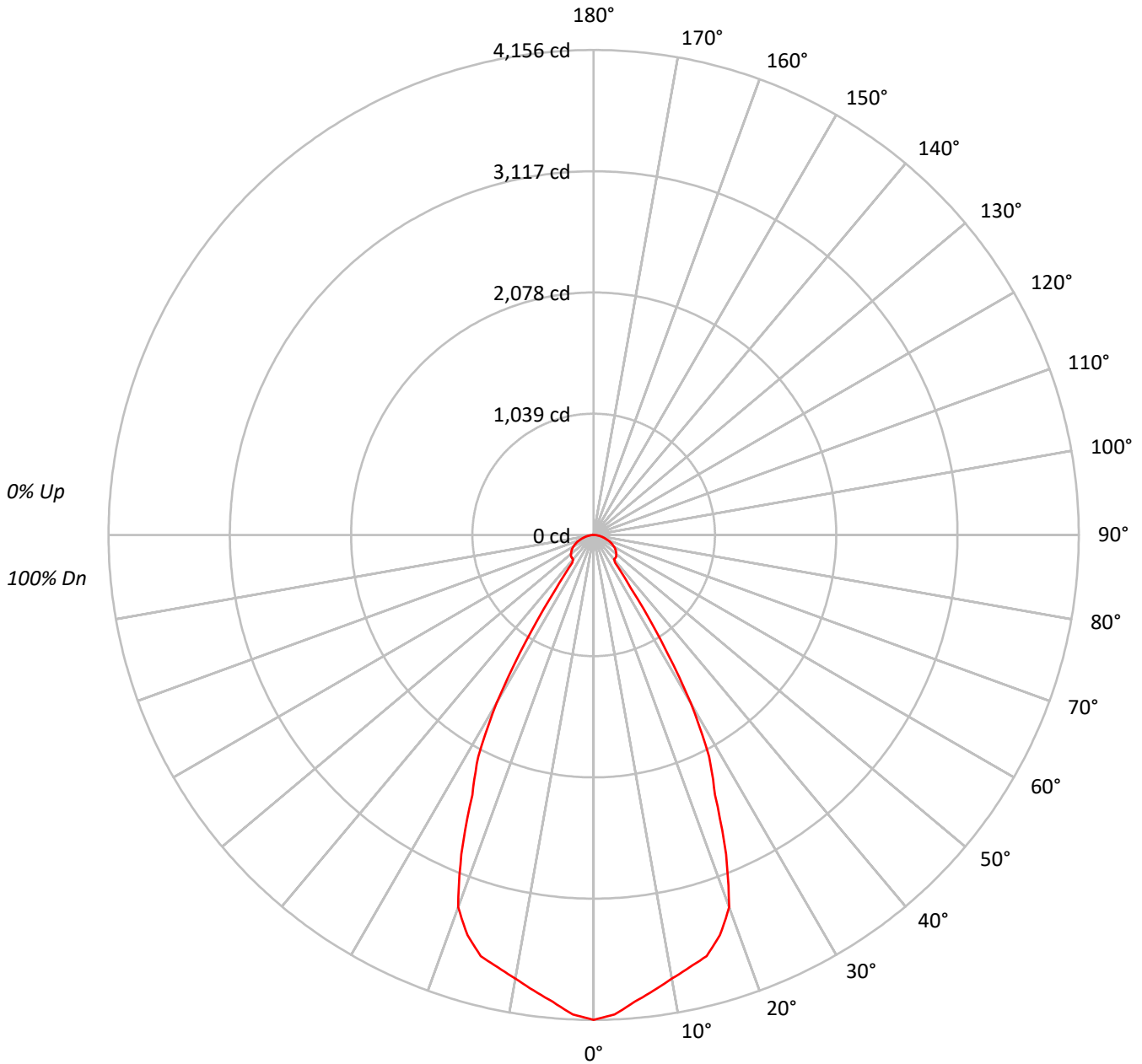
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
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°	454099
5°	440599
10°	428319
15°	422700
20°	394711
25°	296531
30°	209621
35°	74254
40°	39038
45°	41581
50°	43056
55°	43870
60°	44141
65°	43201
70°	40795
75°	37783
80°	33537
85°	27204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 44148 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.9	10.3
10°-20°	1039.3	28.1
20°-30°	1144.7	31.0
30°-40°	437.3	11.8
40°-50°	206.5	5.6
50°-60°	205.3	5.6
60°-70°	164.4	4.4
70°-80°	94.5	2.6
80°-90°	25.7	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°	2562.9	69.3
0°-40°	3000.3	81.2
0°-60°	3412.1	92.3
0°-90°	3696.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4156	
5°	4017	379
15°	3737	1039
25°	2460	1145
35°	557	437
45°	269	206
55°	230	205
65°	167	164
75°	90	94
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4156.1
2.5°	4112.6
5°	4017.2
7.5°	3937.6
10°	3860.6
12.5°	3795.5
15°	3736.9
17.5°	3595.4
20°	3394.7
22.5°	2961.7
25°	2459.7
27.5°	2141.2
30°	1661.5
32.5°	1073.2
35°	556.7
37.5°	300.7
40°	273.7
42.5°	271.8
45°	269.1
47.5°	263.2
50°	253.3
52.5°	242.2
55°	230.3
57.5°	217.1
60°	202.0
62.5°	184.9
65°	167.1
67.5°	147.4
70°	127.7
72.5°	107.9
75°	89.5
77.5°	70.4
80°	53.3
82.5°	37.5
85°	21.7
87.5°	8.6
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)