

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: P750544

Luminaire Tested: LD4D55D010-EU4DR7055659040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P750544
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-EU4DR7055659040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3399.1 lumens
Efficiency: N/A
Efficacy: 58.4 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

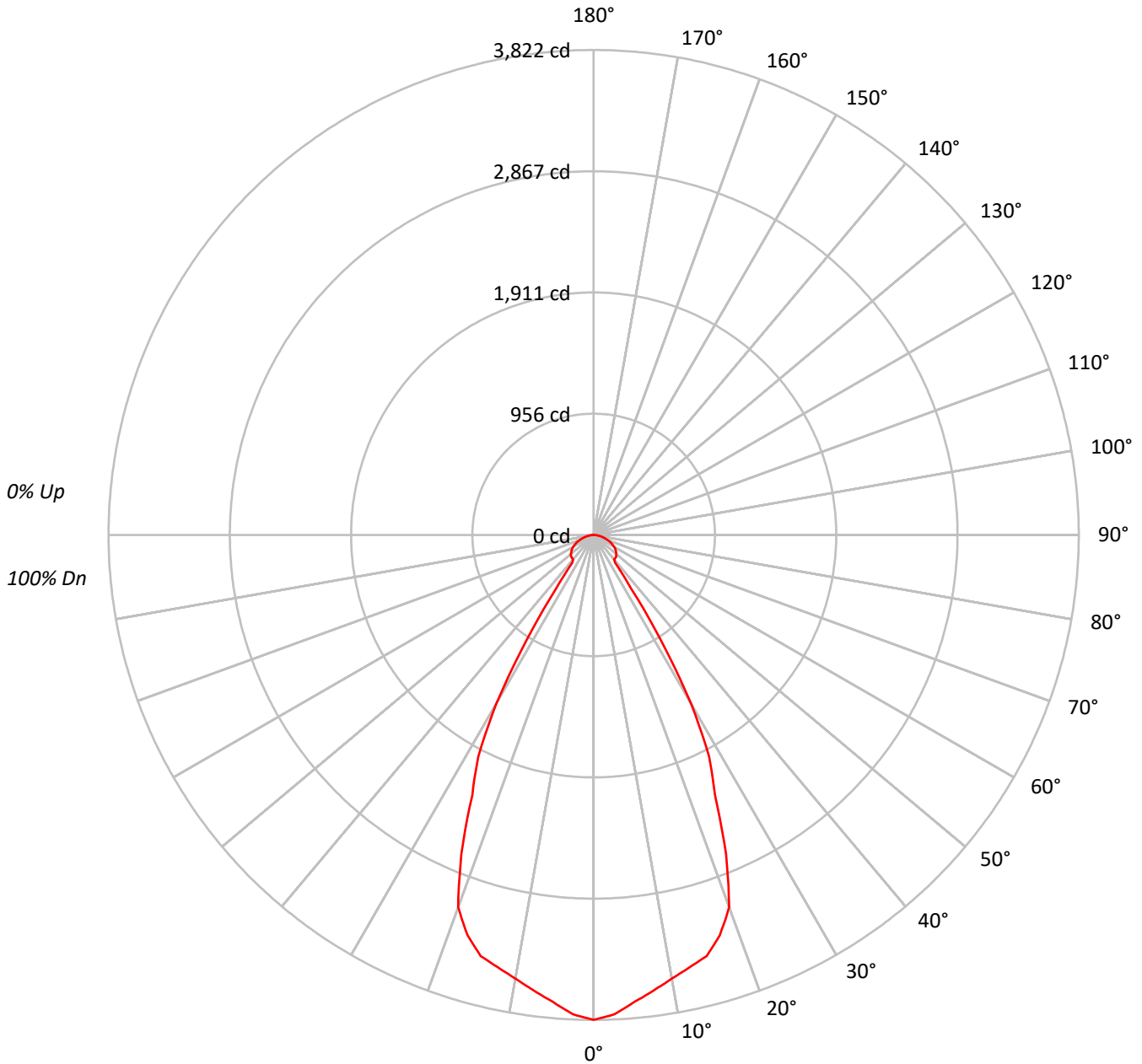
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	50	30	10	0													
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100													
	1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91	91	91	91	91	91													
	2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83	83	83	83	83	83													
	3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76	76	76													
	4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70	70	70	70	70	70													
	5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65	65	65	65	65	65													
	6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61	61	61	61	61	61													
	7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57	57	57	57													
	8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53	53	53													
	9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50													
	10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48	48	48													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	417540
5°	405140
10°	393848
15°	388675
20°	362946
25°	272661
30°	192753
35°	68279
40°	35900
45°	38243
50°	39588
55°	40346
60°	40601
65°	39737
70°	37504
75°	34743
80°	30831
85°	25073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 40609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	10.3
10°-20°	955.7	28.1
20°-30°	1052.6	31.0
30°-40°	402.1	11.8
40°-50°	189.9	5.6
50°-60°	188.8	5.6
60°-70°	151.1	4.4
70°-80°	86.9	2.6
80°-90°	23.6	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°	2356.7	69.3
0°-40°	2758.8	81.2
0°-60°	3137.5	92.3
0°-90°	3399.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3822	
5°	3694	348
15°	3436	956
25°	2262	1053
35°	512	402
45°	248	190
55°	212	189
65°	154	151
75°	82	87
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3821.5
2.5°	3781.6
5°	3693.9
7.5°	3620.7
10°	3549.9
12.5°	3490.0
15°	3436.1
17.5°	3306.0
20°	3121.5
22.5°	2723.4
25°	2261.7
27.5°	1968.9
30°	1527.8
32.5°	986.8
35°	511.9
37.5°	276.5
40°	251.7
42.5°	249.9
45°	247.5
47.5°	242.0
50°	232.9
52.5°	222.7
55°	211.8
57.5°	199.7
60°	185.8
62.5°	170.0
65°	153.7
67.5°	135.5
70°	117.4
72.5°	99.2
75°	82.3
77.5°	64.7
80°	49.0
82.5°	34.5
85°	20.0
87.5°	7.9
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)