

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: P754405

Luminaire Tested: LD4D80BD010-EU4DR7070959027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754405
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: LD4D80BD010-EU4DR7070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4338.5 lumens
Efficiency: N/A
Efficacy: 55.0 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

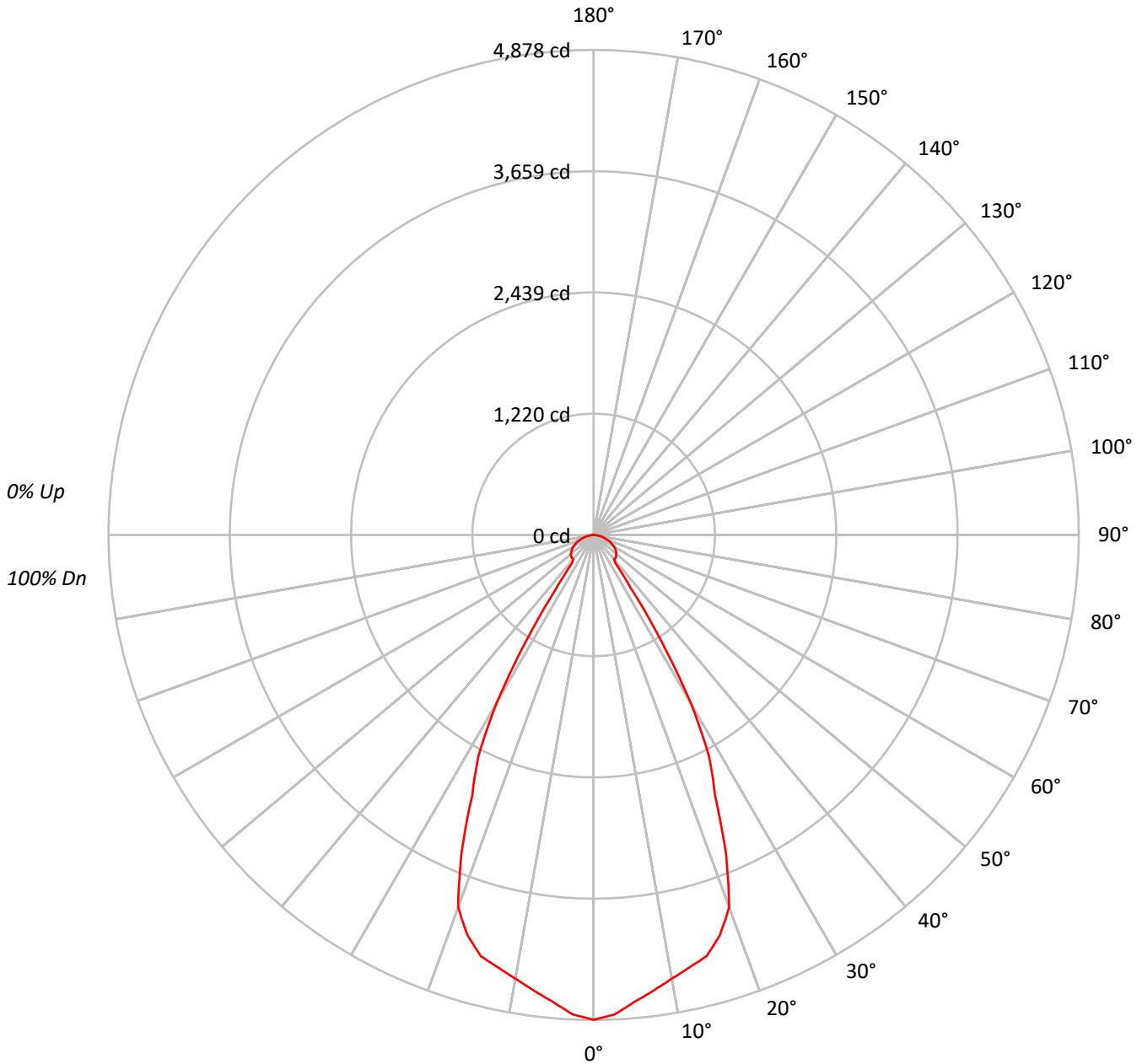
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	532941
5°	517110
10°	502698
15°	496100
20°	463254
25°	348021
30°	246019
35°	87152
40°	45827
45°	48812
50°	50535
55°	51490
60°	51811
65°	50724
70°	47855
75°	44326
80°	39388
85°	31967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 51834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.7	10.3
10°-20°	1219.8	28.1
20°-30°	1343.5	31.0
30°-40°	513.3	11.8
40°-50°	242.4	5.6
50°-60°	241.0	5.6
60°-70°	192.9	4.4
70°-80°	110.9	2.6
80°-90°	30.1	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°	3008.0	69.3
0°-40°	3521.3	81.2
0°-60°	4004.6	92.3
0°-90°	4338.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4338.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4878	
5°	4715	445
15°	4386	1220
25°	2887	1343
35°	653	513
45°	316	242
55°	270	241
65°	196	193
75°	105	111
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4877.7
2.5°	4826.8
5°	4714.8
7.5°	4621.3
10°	4531.0
12.5°	4454.5
15°	4385.8
17.5°	4219.8
20°	3984.2
22.5°	3476.1
25°	2886.8
27.5°	2513.0
30°	1950.0
32.5°	1259.6
35°	653.4
37.5°	352.9
40°	321.3
42.5°	319.0
45°	315.9
47.5°	308.9
50°	297.3
52.5°	284.2
55°	270.3
57.5°	254.9
60°	237.1
62.5°	217.0
65°	196.2
67.5°	173.0
70°	149.8
72.5°	126.7
75°	105.0
77.5°	82.6
80°	62.6
82.5°	44.0
85°	25.5
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)