

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: P754444

Luminaire Tested: LD4D80BD010-EU4DR7070959040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754444
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-EU4DR7070959040-4LBDP1B
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: 4727.9 lumens
Efficiency: N/A
Efficacy: 59.9 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

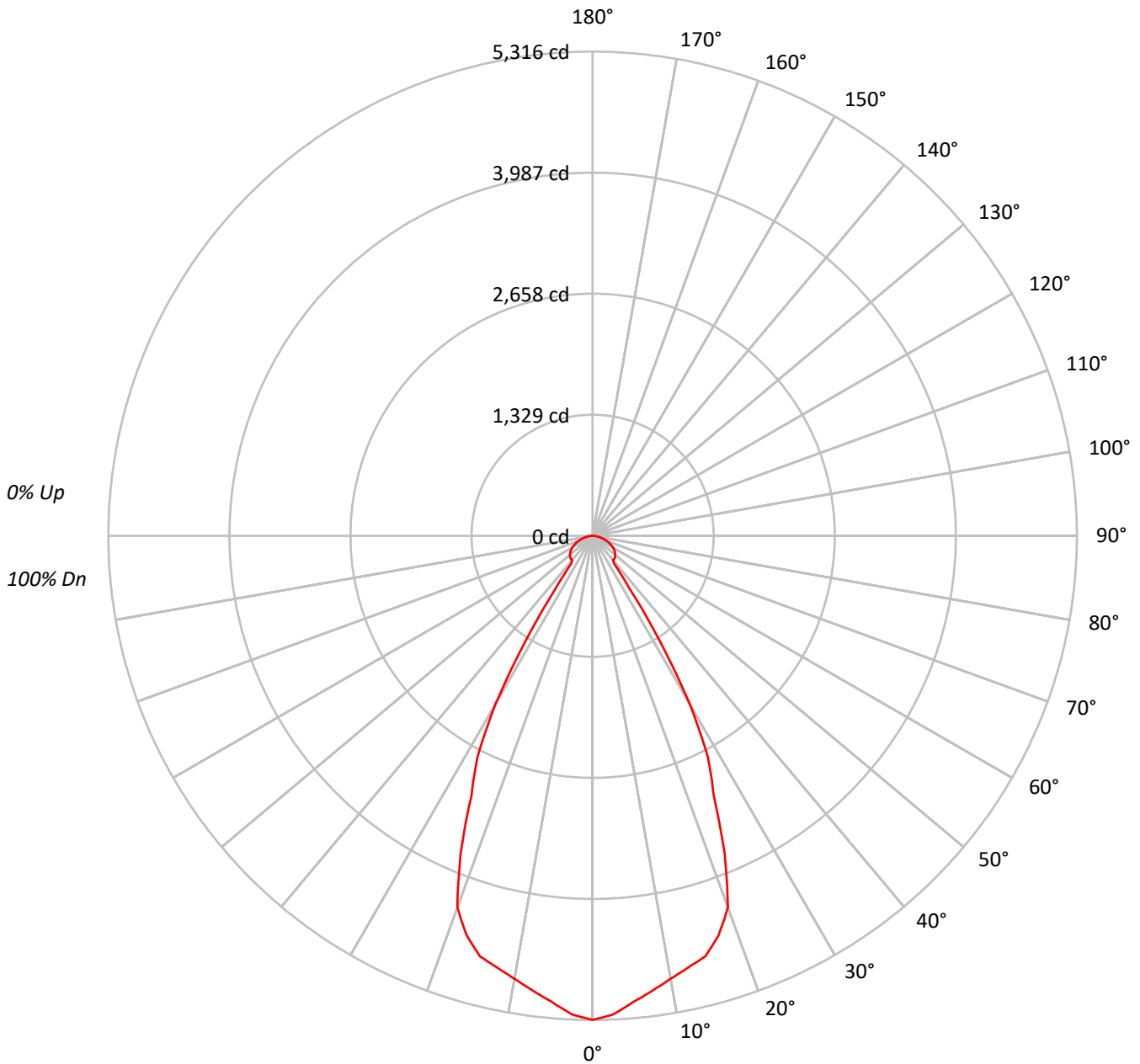
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	580776
5°	563515
10°	547808
15°	540622
20°	504834
25°	379257
30°	268097
35°	94969
40°	49935
45°	53185
50°	55073
55°	56118
60°	56466
65°	55274
70°	52167
75°	48336
80°	42912
85°	34851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 56471 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	10.3
10°-20°	1329.3	28.1
20°-30°	1464.0	31.0
30°-40°	559.4	11.8
40°-50°	264.1	5.6
50°-60°	262.6	5.6
60°-70°	210.2	4.4
70°-80°	120.9	2.6
80°-90°	32.9	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°	3277.9	69.3
0°-40°	3837.3	81.2
0°-60°	4364.0	92.3
0°-90°	4727.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4727.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5316	
5°	5138	485
15°	4779	1329
25°	3146	1464
35°	712	559
45°	344	264
55°	295	263
65°	214	210
75°	114	121
85°	28	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5315.5
2.5°	5259.9
5°	5137.9
7.5°	5036.1
10°	4937.6
12.5°	4854.3
15°	4779.4
17.5°	4598.5
20°	4341.8
22.5°	3788.0
25°	3145.9
27.5°	2738.5
30°	2125.0
32.5°	1372.6
35°	712.0
37.5°	384.6
40°	350.1
42.5°	347.6
45°	344.2
47.5°	336.6
50°	324.0
52.5°	309.7
55°	294.6
57.5°	277.7
60°	258.4
62.5°	236.5
65°	213.8
67.5°	188.5
70°	163.3
72.5°	138.0
75°	114.5
77.5°	90.1
80°	68.2
82.5°	48.0
85°	27.8
87.5°	10.9
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)