

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: P755031

Luminaire Tested: LD4D85BD010-EU4DR6070959027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8280.9 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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

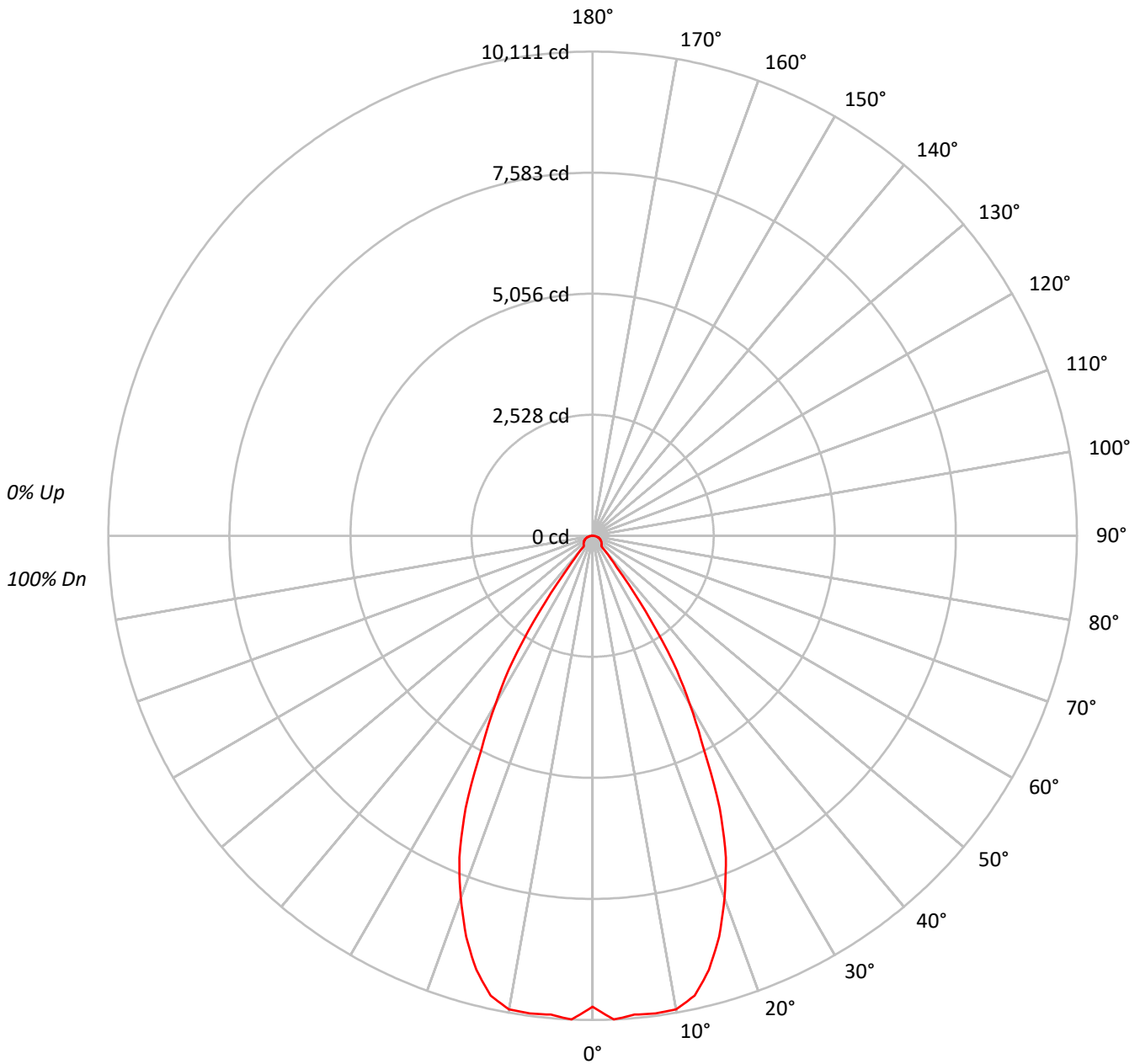


Downlight

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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				100															
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93															
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86				86															
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80															
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75				75															
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70				70															
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66				66															
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62				62															
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59				59															
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55				55															
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53				53															

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	1074536
5°	1100960
10°	1114256
15°	1061483
20°	935904
25°	756983
30°	512034
35°	256588
40°	41619
45°	40746
50°	41560
55°	42175
60°	43355
65°	44338
70°	45395
75°	45930
80°	44296
85°	36857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 45930 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.4	11.6
10°-20°	2595.7	31.3
20°-30°	2792.8	33.7
30°-40°	1214.0	14.7
40°-50°	203.9	2.5
50°-60°	198.2	2.4
60°-70°	169.6	2.0
70°-80°	113.5	1.4
80°-90°	33.9	0.4
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°	6347.8	76.7
0°-40°	7561.8	91.3
0°-60°	7963.9	96.2
0°-90°	8280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8280.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9835	
5°	10038	959
15°	9384	2596
25°	6279	2793
35°	1924	1214
45°	264	204
55°	221	198
65°	172	170
75°	109	113
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9834.6
2.5°	10111.1
5°	10038.1
7.5°	10061.1
10°	10043.2
12.5°	9835.9
15°	9384.1
17.5°	8777.4
20°	8049.2
22.5°	7269.7
25°	6279.1
27.5°	5022.3
30°	4058.5
32.5°	3128.0
35°	1923.7
37.5°	823.0
40°	291.8
42.5°	268.8
45°	263.7
47.5°	254.7
50°	244.5
52.5°	232.9
55°	221.4
57.5°	209.9
60°	198.4
62.5°	185.6
65°	171.5
67.5°	157.4
70°	142.1
72.5°	125.4
75°	108.8
77.5°	89.6
80°	70.4
82.5°	49.9
85°	29.4
87.5°	10.2
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)