

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: P755824

Luminaire Tested: LD4D90BD010-EU4DR6070959030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755824
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: LD4D90BD010-EU4DR6070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9050.4 lumens
Efficiency: N/A
Efficacy: 91.5 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): 98.9
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

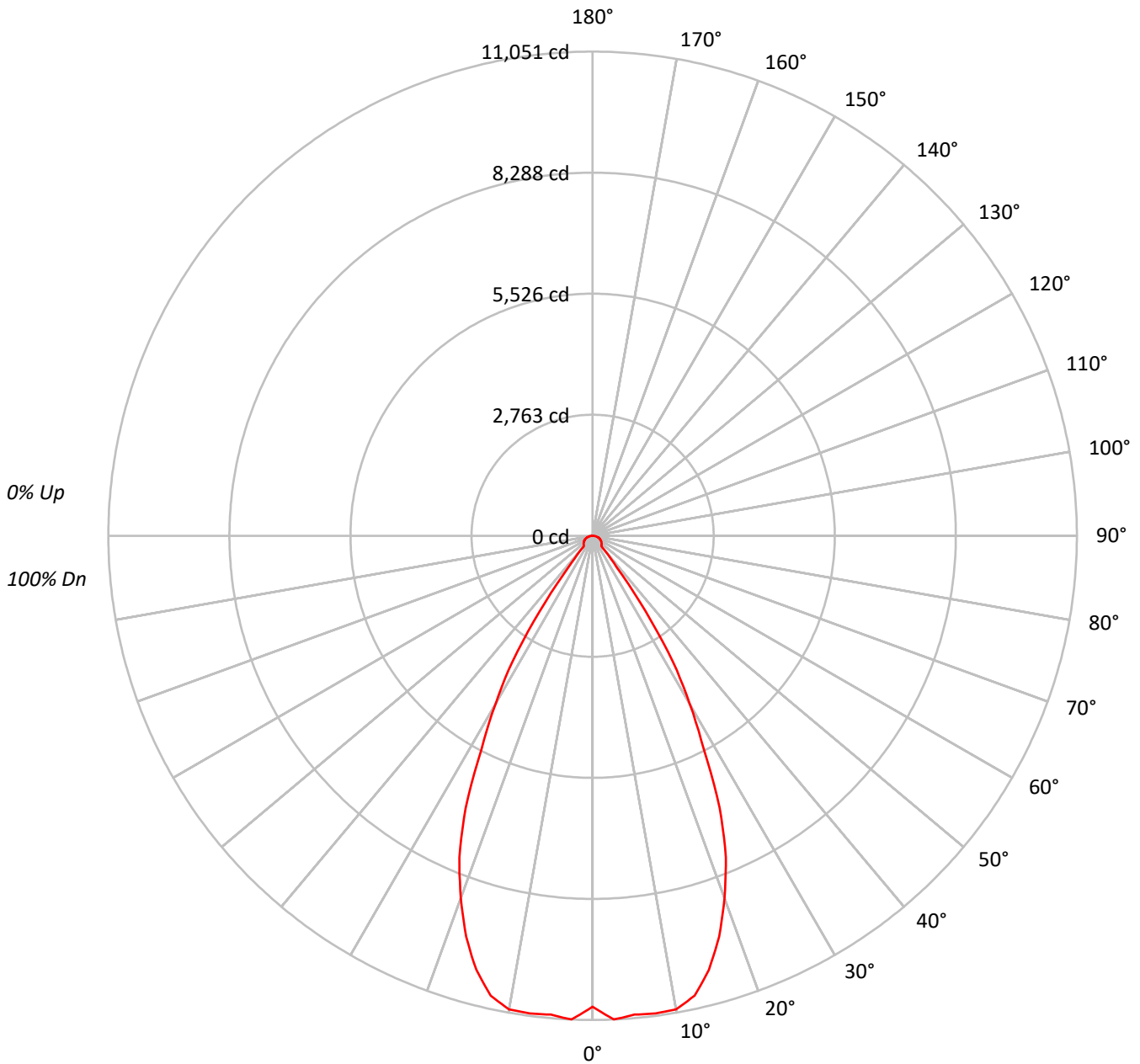


Downlight

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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			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°	1174389
5°	1203268
10°	1217802
15°	1160119
20°	1022864
25°	827327
30°	559611
35°	280424
40°	45485
45°	44532
50°	45419
55°	46099
60°	47375
65°	48449
70°	49612
75°	50194
80°	48386
85°	40367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 50194 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1048.5	11.6
10°-20°	2836.9	31.3
20°-30°	3052.3	33.7
30°-40°	1326.7	14.7
40°-50°	222.8	2.5
50°-60°	216.7	2.4
60°-70°	185.3	2.0
70°-80°	124.0	1.4
80°-90°	37.1	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°	6937.7	76.7
0°-40°	8264.4	91.3
0°-60°	8703.9	96.2
0°-90°	9050.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9050.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10748	
5°	10971	###
15°	10256	2837
25°	6863	3052
35°	2102	1327
45°	288	223
55°	242	217
65°	187	185
75°	119	124
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10748.5
2.5°	11050.6
5°	10970.9
7.5°	10996.0
10°	10976.5
12.5°	10749.8
15°	10256.1
17.5°	9593.0
20°	8797.1
22.5°	7945.2
25°	6862.6
27.5°	5488.9
30°	4435.6
32.5°	3418.7
35°	2102.4
37.5°	899.4
40°	318.9
42.5°	293.7
45°	288.2
47.5°	278.4
50°	267.2
52.5°	254.6
55°	242.0
57.5°	229.4
60°	216.8
62.5°	202.8
65°	187.4
67.5°	172.1
70°	155.3
72.5°	137.1
75°	118.9
77.5°	97.9
80°	76.9
82.5°	54.6
85°	32.2
87.5°	11.2
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)