

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: P755863

Luminaire Tested: LD4D90BD010-EU4DR6070959050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755863
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-EU4DR6070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9641.6 lumens
Efficiency: N/A
Efficacy: 97.5 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

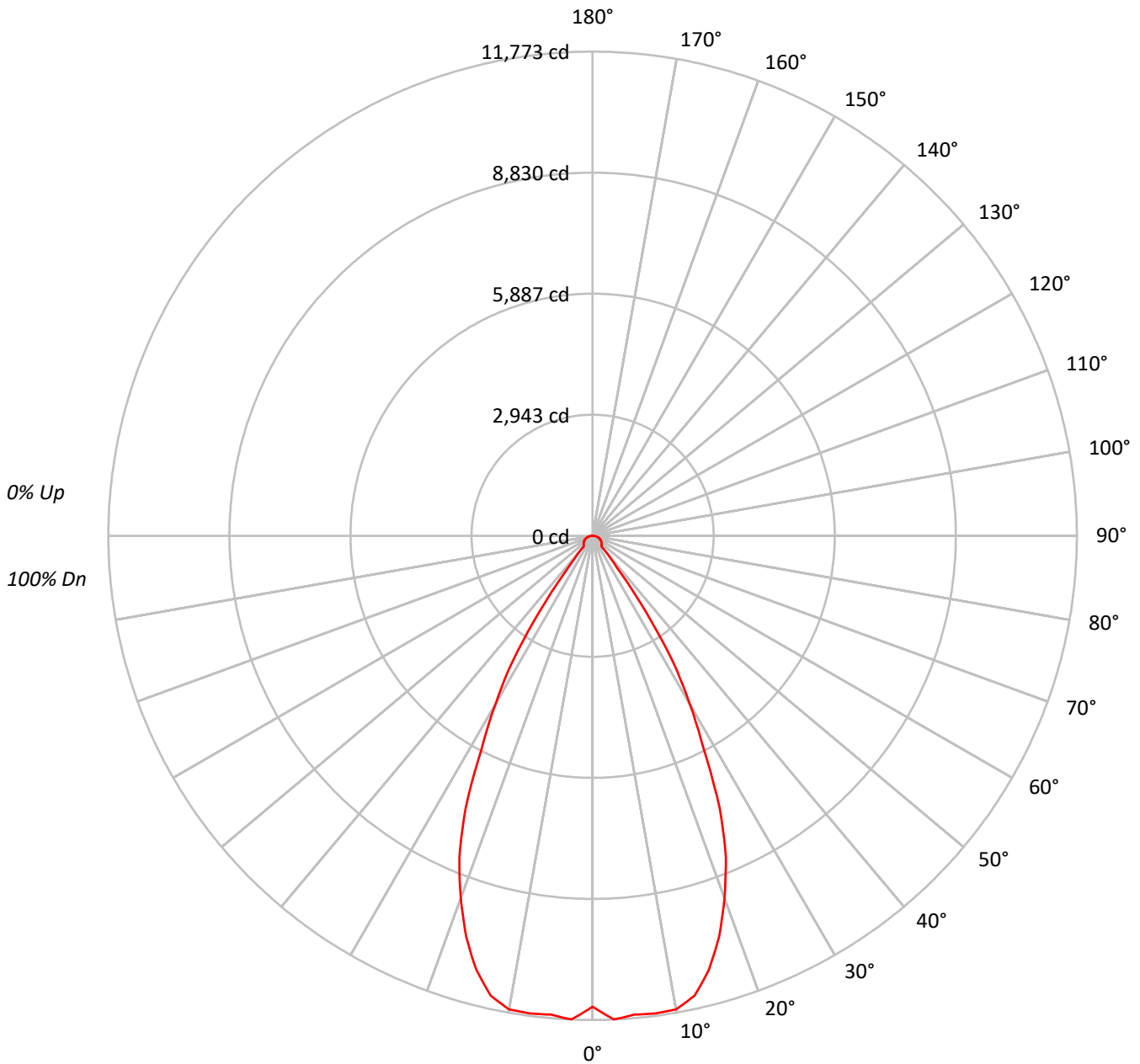
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1251112
5°	1281874
10°	1297361
15°	1235906
20°	1089698
25°	881372
30°	596173
35°	298751
40°	48466
45°	47437
50°	48376
55°	49108
60°	50478
65°	51629
70°	52838
75°	53487
80°	51595
85°	42999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 53487 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.0	11.6
10°-20°	3022.2	31.3
20°-30°	3251.7	33.7
30°-40°	1413.4	14.7
40°-50°	237.4	2.5
50°-60°	230.8	2.4
60°-70°	197.4	2.0
70°-80°	132.1	1.4
80°-90°	39.5	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°	7390.9	76.7
0°-40°	8804.4	91.3
0°-60°	9272.6	96.2
0°-90°	9641.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9641.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11451	
5°	11688	###
15°	10926	3022
25°	7311	3252
35°	2240	1413
45°	307	237
55°	258	231
65°	200	197
75°	127	132
85°	34	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11450.7
2.5°	11772.6
5°	11687.6
7.5°	11714.4
10°	11693.6
12.5°	11452.2
15°	10926.1
17.5°	10219.8
20°	9371.9
22.5°	8464.3
25°	7310.9
27.5°	5847.5
30°	4725.4
32.5°	3642.0
35°	2239.8
37.5°	958.2
40°	339.8
42.5°	312.9
45°	307.0
47.5°	296.5
50°	284.6
52.5°	271.2
55°	257.8
57.5°	244.4
60°	231.0
62.5°	216.1
65°	199.7
67.5°	183.3
70°	165.4
72.5°	146.0
75°	126.7
77.5°	104.3
80°	82.0
82.5°	58.1
85°	34.3
87.5°	11.9
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)