

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: P755918

Luminaire Tested: LD4D90BD010-EU4DR6570959035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8011.3 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

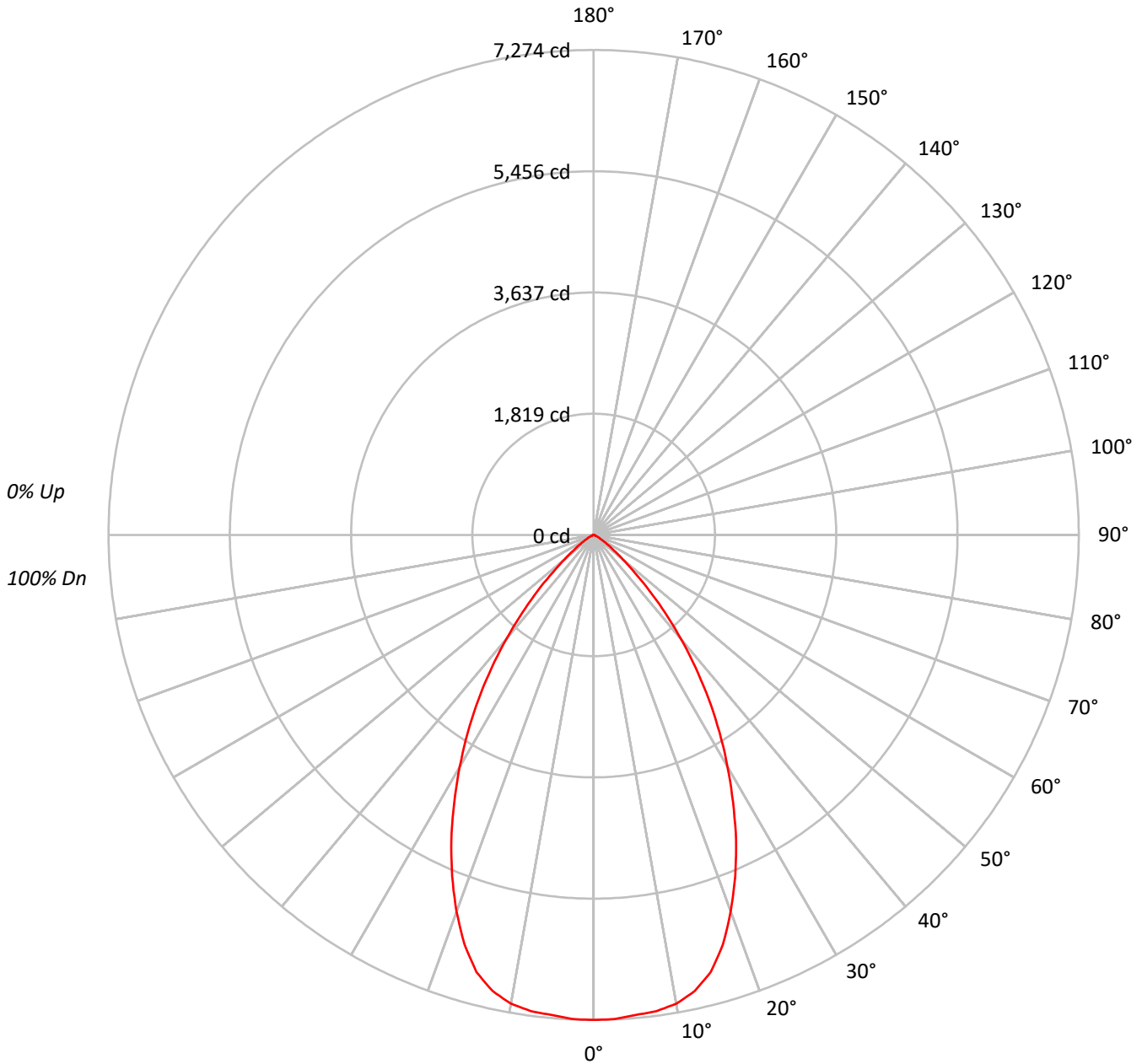
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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			100																
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	424830
5°	423756
10°	423395
15°	410346
20°	373565
25°	325539
30°	270761
35°	214536
40°	154845
45°	97826
50°	50991
55°	27106
60°	14239
65°	7836
70°	3279
75°	3610
80°	2523
85°	2144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 97826 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.9	8.6
10°-20°	1883.7	23.5
20°-30°	2302.5	28.7
30°-40°	1868.2	23.3
40°-50°	931.0	11.6
50°-60°	259.7	3.2
60°-70°	59.0	0.7
70°-80°	15.4	0.2
80°-90°	3.9	0.0
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°	4874.1	60.8
0°-40°	6742.3	84.2
0°-60°	7933.0	99.0
0°-90°	8011.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8011.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7274	
5°	7228	688
15°	6787	1884
25°	5052	2303
35°	3009	1868
45°	1184	931
55°	266	260
65°	57	59
75°	16	15
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7274.0
2.5°	7268.7
5°	7228.0
7.5°	7204.5
10°	7139.3
12.5°	7006.8
15°	6786.6
17.5°	6442.4
20°	6010.5
22.5°	5544.5
25°	5051.7
27.5°	4524.7
30°	4014.9
32.5°	3511.4
35°	3009.0
37.5°	2507.7
40°	2031.0
42.5°	1584.1
45°	1184.4
47.5°	825.2
50°	561.2
52.5°	386.9
55°	266.2
57.5°	179.6
60°	121.9
62.5°	84.4
65°	56.7
67.5°	28.9
70°	19.2
72.5°	18.2
75°	16.0
77.5°	10.7
80°	7.5
82.5°	5.3
85°	3.2
87.5°	2.1
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)