

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: P755255

Luminaire Tested: LD4D90BD010-EU4DR2570959024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR2570959024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6927.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

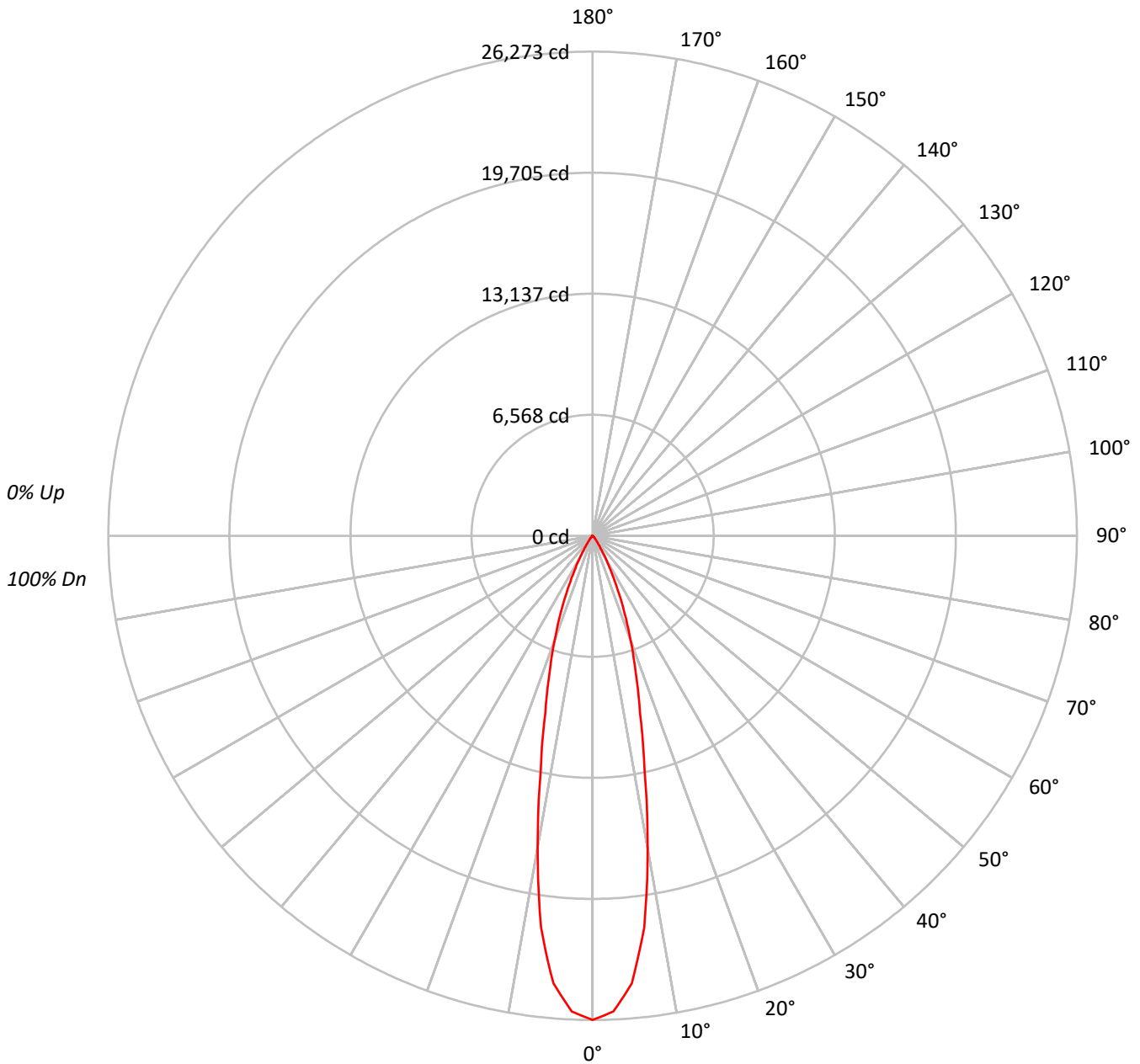
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																											
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																											
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																											
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																											
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82																											
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																											
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77																											
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																											
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																											
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2870575
5°	2673579
10°	1907133
15°	1123233
20°	698893
25°	383549
30°	175405
35°	66425
40°	30081
45°	18094
50°	7513
55°	4838
60°	3387
65°	2275
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18094 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2095.0	30.2
10°-20°	2837.5	41.0
20°-30°	1501.5	21.7
30°-40°	370.7	5.4
40°-50°	90.4	1.3
50°-60°	23.8	0.3
60°-70°	8.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	6434.0	92.9
0°-40°	6804.7	98.2
0°-60°	6918.9	99.9
0°-90°	6927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6927.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26273	
5°	24377	###
15°	9930	2837
25°	3182	1502
35°	498	371
45°	117	90
55°	25	24
65°	9	8
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	26272.7
2.5°	25840.9
5°	24376.6
7.5°	21434.7
10°	17189.7
12.5°	12994.4
15°	9930.0
17.5°	7739.0
20°	6010.8
22.5°	4507.8
25°	3181.5
27.5°	2133.5
30°	1390.3
32.5°	845.9
35°	498.0
37.5°	304.8
40°	210.9
42.5°	161.2
45°	117.1
47.5°	70.7
50°	44.2
52.5°	32.0
55°	25.4
57.5°	19.9
60°	15.5
62.5°	12.1
65°	8.8
67.5°	3.3
70°	1.1
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)