

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: P755822

Luminaire Tested: LD4D90BD010-EU4DR6070959030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755822
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-EU4DR6070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6787.5 lumens
Efficiency: N/A
Efficacy: 68.6 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

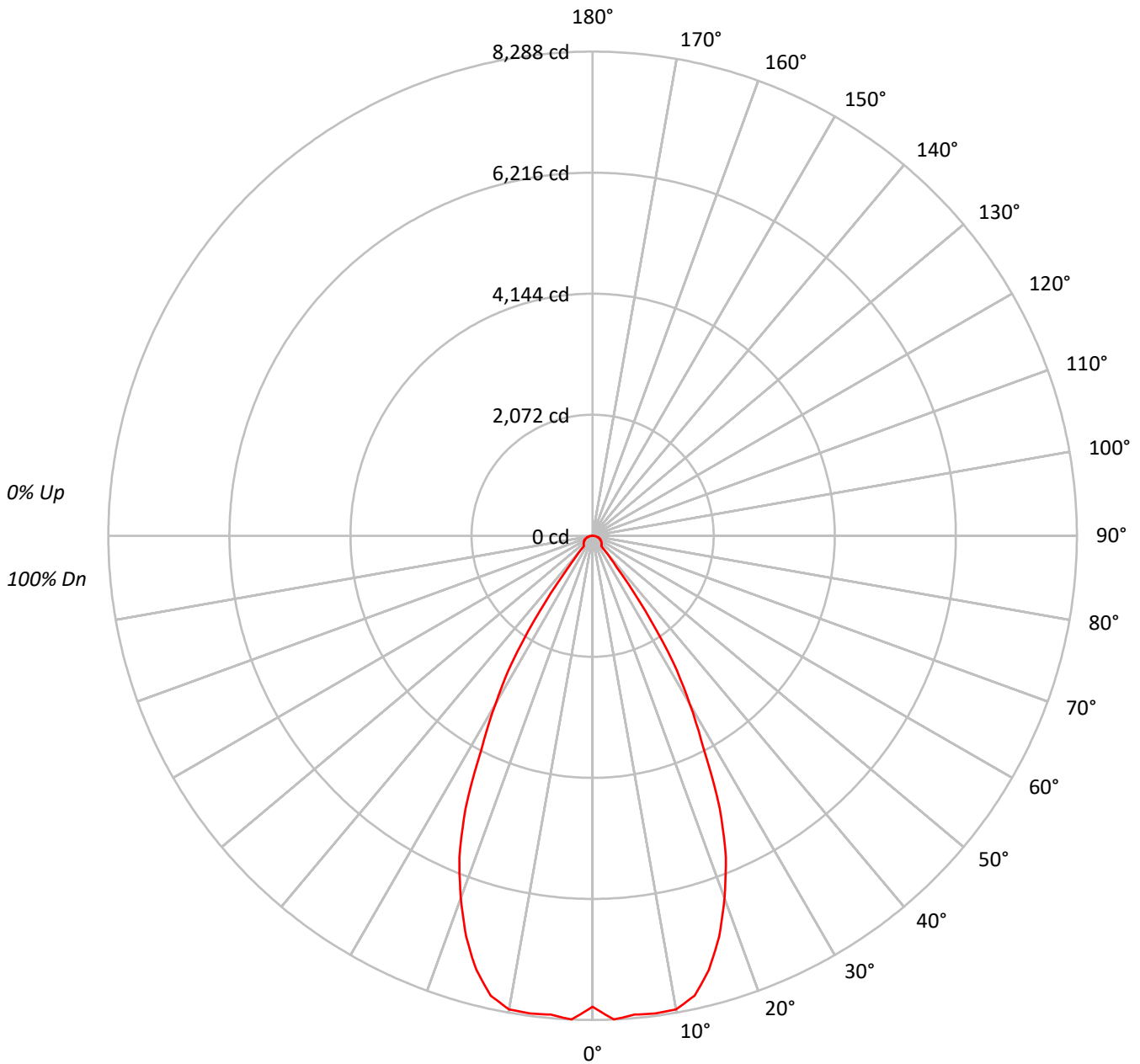
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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				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°	880762
5°	902421
10°	913321
15°	870058
20°	767122
25°	620477
30°	419695
35°	210318
40°	34117
45°	33391
50°	34064
55°	34574
60°	35532
65°	36350
70°	37185
75°	37656
80°	36305
85°	30212

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 37656 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.4	11.6
10°-20°	2127.6	31.3
20°-30°	2289.1	33.7
30°-40°	995.0	14.7
40°-50°	167.1	2.5
50°-60°	162.5	2.4
60°-70°	139.0	2.0
70°-80°	93.0	1.4
80°-90°	27.8	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°	5203.1	76.7
0°-40°	6198.1	91.3
0°-60°	6527.8	96.2
0°-90°	6787.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6787.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8061	
5°	8228	786
15°	7692	2128
25°	5147	2289
35°	1577	995
45°	216	167
55°	182	162
65°	141	139
75°	89	93
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8061.1
2.5°	8287.7
5°	8227.9
7.5°	8246.8
10°	8232.1
12.5°	8062.1
15°	7691.8
17.5°	7194.5
20°	6597.6
22.5°	5958.7
25°	5146.8
27.5°	4116.6
30°	3326.6
32.5°	2563.9
35°	1576.8
37.5°	674.6
40°	239.2
42.5°	220.3
45°	216.1
47.5°	208.8
50°	200.4
52.5°	190.9
55°	181.5
57.5°	172.0
60°	162.6
62.5°	152.1
65°	140.6
67.5°	129.0
70°	116.4
72.5°	102.8
75°	89.2
77.5°	73.4
80°	57.7
82.5°	40.9
85°	24.1
87.5°	8.4
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)