

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: P755367

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR3070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6828.6 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

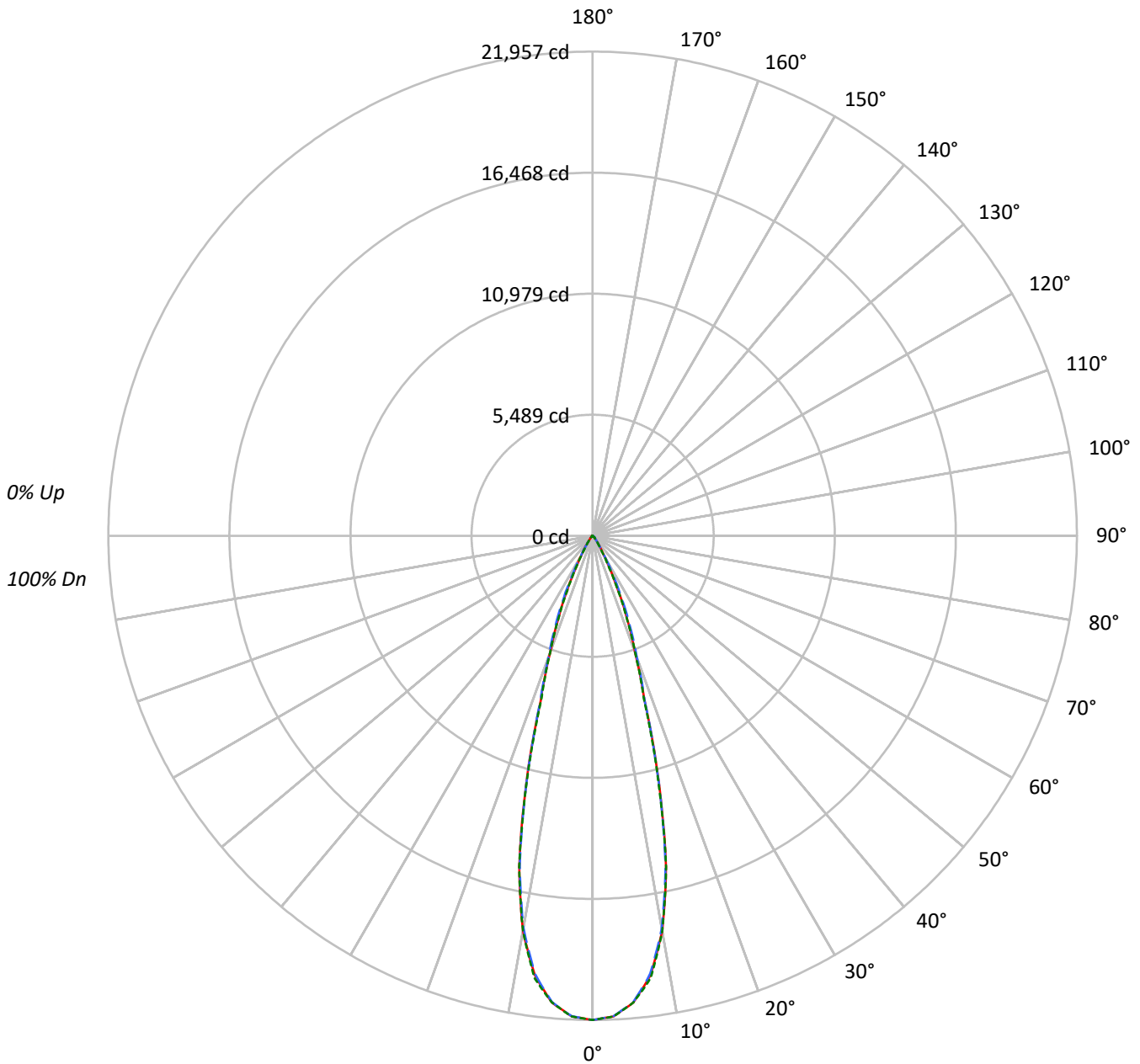
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1680679	1680679	1680679
5°	1632430	1630524	1632514
10°	1413928	1403963	1413593
15°	922522	917561	912949
20°	458726	475938	458107
25°	231072	260573	226343
30°	92521	100803	80607
35°	42909	41096	34452
40°	18525	20574	17446
45°	13066	16216	13185
50°	4489	11813	4751
55°	2589	4898	2736
60°	1822	2143	1822
65°	1177	1177	1177
70°	716	492	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16216 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1930.8	28.3
10°-20°	3109.6	45.5
20°-30°	1343.7	19.7
30°-40°	306.3	4.5
40°-50°	105.1	1.5
50°-60°	25.7	0.4
60°-70°	6.7	0.1
70°-80°	0.7	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°	6384.1	93.5
0°-40°	6690.4	98.0
0°-60°	6821.2	99.9
0°-90°	6828.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6828.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21957	21957	21957	21957	21957	
5°	21246	21225	21221	21265	21247	1932
15°	11642	11501	11579	11541	11521	3117
25°	2736	2840	3085	2767	2680	1310
35°	459	469	440	437	369	311
45°	121	150	150	150	122	86
55°	19	20	37	22	20	19
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21957.2	21957.2	21957.2	21957.2	21957.2
2.5°	21811.6	21796.5	21805.2	21816.0	21820.3
5°	21245.7	21225.2	21220.9	21265.1	21246.8
7.5°	20104.1	20074.9	20030.7	20131.0	20224.8
10°	18191.6	18159.3	18063.4	18110.8	18187.3
12.5°	15368.3	15263.7	15261.6	15412.5	15392.0
15°	11641.6	11501.4	11579.0	11541.3	11520.8
17.5°	7828.6	7774.7	7878.2	7846.9	7712.2
20°	5631.6	5645.6	5842.9	5743.7	5624.0
22.5°	4109.4	4160.1	4394.0	4138.5	4044.7
25°	2736.0	2839.5	3085.3	2767.3	2680.0
27.5°	1682.8	1730.2	1979.3	1661.2	1613.8
30°	1046.8	1023.0	1140.5	978.8	912.0
32.5°	686.7	656.5	694.2	623.1	569.2
35°	459.2	468.9	439.8	436.6	368.7
37.5°	286.8	329.9	291.1	310.5	237.2
40°	185.4	239.3	205.9	227.5	174.6
42.5°	152.0	184.3	169.2	180.0	155.2
45°	120.7	149.8	149.8	149.8	121.8
47.5°	66.8	100.3	128.3	102.4	71.1
50°	37.7	50.7	99.2	52.8	39.9
52.5°	25.9	29.1	67.9	30.2	27.0
55°	19.4	20.5	36.7	21.6	20.5
57.5°	15.1	16.2	19.4	16.2	15.1
60°	11.9	11.9	14.0	12.9	11.9
62.5°	8.6	8.6	9.7	8.6	8.6
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.2	2.2	2.2	3.2
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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