

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: P746009

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746009
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: LD4D30D010-EU4DR3020359035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.0 lumens
Efficiency: N/A
Efficacy: 100.0 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): 29
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

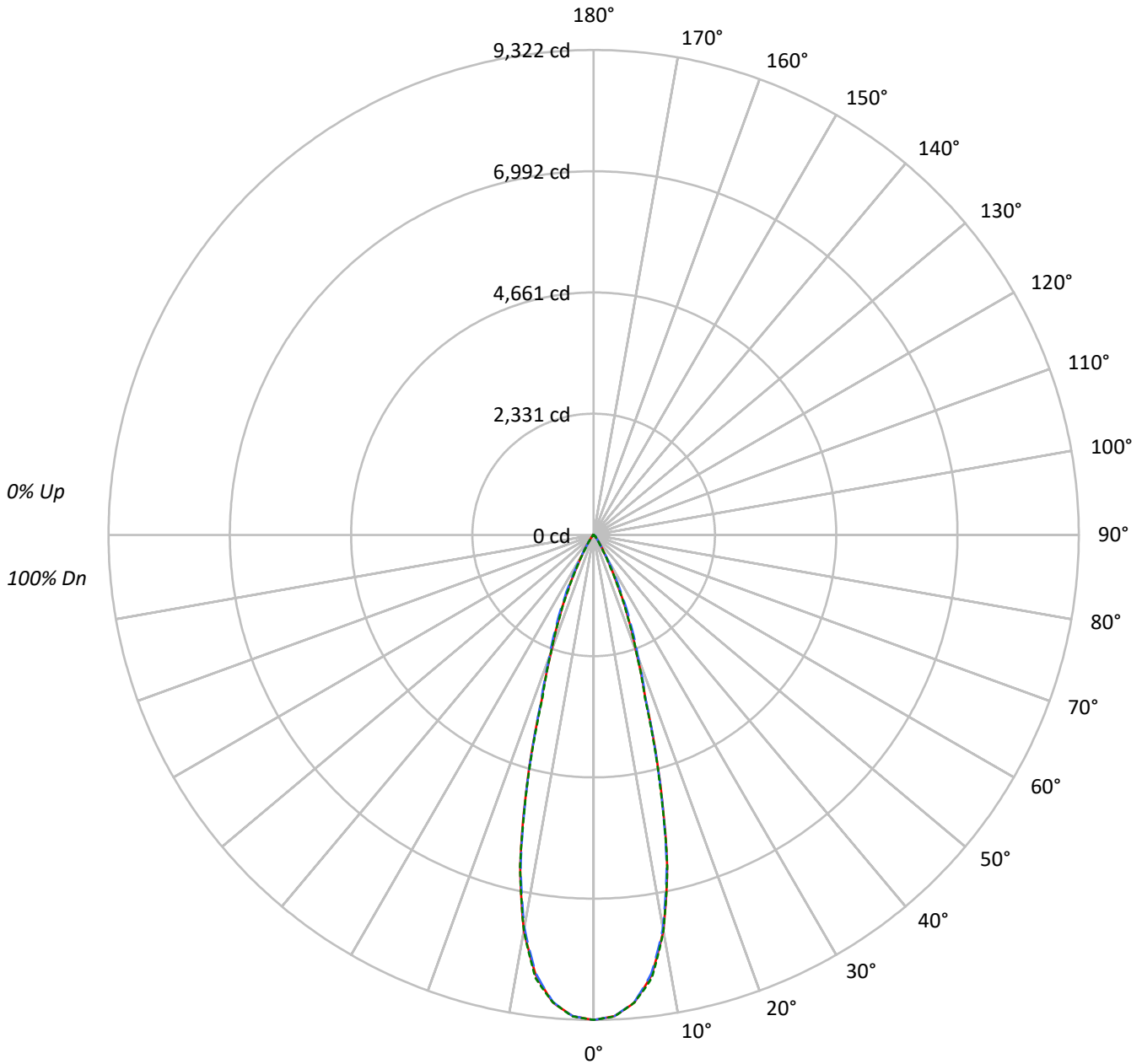


Downlight



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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	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	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	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°	45°	90°
0°	713507	713507	713507
5°	693028	692214	693059
10°	600264	596028	600124
15°	391645	389538	387580
20°	194744	202051	194484
25°	98096	110621	96094
30°	39278	42796	34223
35°	18221	17446	14624
40°	7864	8733	7404
45°	5553	6885	5596
50°	1905	5013	2024
55°	1108	2082	1161
60°	765	919	765
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.7	28.3
10°-20°	1320.1	45.5
20°-30°	570.5	19.7
30°-40°	130.0	4.5
40°-50°	44.6	1.5
50°-60°	10.9	0.4
60°-70°	2.8	0.1
70°-80°	0.3	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°	2710.3	93.5
0°-40°	2840.3	98.0
0°-60°	2895.9	99.9
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9322	9322	9322	9322	9322	
5°	9020	9011	9009	9028	9020	820
15°	4942	4883	4916	4900	4891	1323
25°	1162	1206	1310	1175	1138	556
35°	195	199	187	185	156	132
45°	51	64	64	64	52	36
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9321.6	9321.6	9321.6	9321.6	9321.6
2.5°	9259.9	9253.4	9257.1	9261.7	9263.5
5°	9019.6	9010.9	9009.0	9027.8	9020.0
7.5°	8534.9	8522.5	8503.8	8546.4	8586.2
10°	7723.0	7709.3	7668.5	7688.7	7721.2
12.5°	6524.4	6480.0	6479.1	6543.2	6534.4
15°	4942.3	4882.8	4915.7	4899.7	4891.0
17.5°	3323.5	3300.7	3344.6	3331.3	3274.1
20°	2390.8	2396.8	2480.5	2438.4	2387.6
22.5°	1744.6	1766.1	1865.4	1757.0	1717.1
25°	1161.5	1205.5	1309.8	1174.8	1137.8
27.5°	714.4	734.5	840.3	705.2	685.1
30°	444.4	434.3	484.2	415.6	387.2
32.5°	291.5	278.7	294.7	264.5	241.7
35°	195.0	199.1	186.7	185.3	156.5
37.5°	121.8	140.0	123.6	131.8	100.7
40°	78.7	101.6	87.4	96.5	74.1
42.5°	64.5	78.3	71.8	76.4	65.9
45°	51.3	63.6	63.6	63.6	51.7
47.5°	28.4	42.6	54.5	43.5	30.2
50°	16.0	21.5	42.1	22.4	17.0
52.5°	11.0	12.4	28.8	12.8	11.5
55°	8.3	8.7	15.6	9.2	8.7
57.5°	6.4	6.9	8.3	6.9	6.4
60°	5.0	5.0	6.0	5.5	5.0
62.5°	3.7	3.7	4.1	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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