

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



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: P755370

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755370
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-EU4DR3070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7566.2 lumens
Efficiency: N/A
Efficacy: 76.5 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

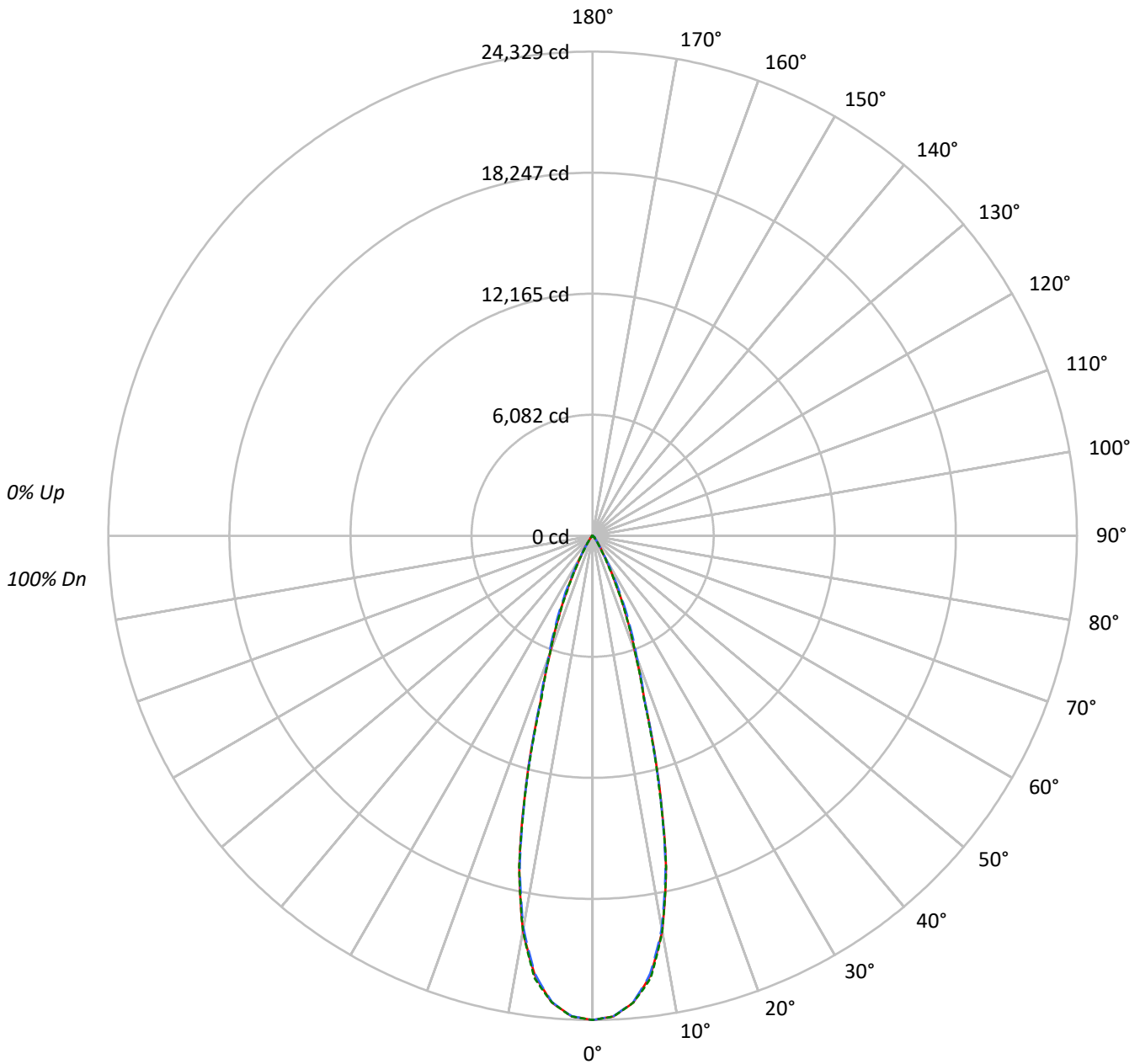


Downlight

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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	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°	1862217	1862217	1862217
5°	1808760	1806647	1808853
10°	1566656	1555611	1566290
15°	1022171	1016679	1011568
20°	508276	527345	507592
25°	256038	288722	250785
30°	102509	111692	89313
35°	47543	45534	38171
40°	20524	22792	19335
45°	14484	17969	14614
50°	4978	13087	5263
55°	2869	5418	3029
60°	2005	2373	2005
65°	1304	1304	1304
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17969 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2139.4	28.3
10°-20°	3445.5	45.5
20°-30°	1488.9	19.7
30°-40°	339.3	4.5
40°-50°	116.5	1.5
50°-60°	28.5	0.4
60°-70°	7.4	0.1
70°-80°	0.8	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°	7073.7	93.5
0°-40°	7413.0	98.0
0°-60°	7558.0	99.9
0°-90°	7566.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7566.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24329	24329	24329	24329	24329	
5°	23541	23518	23513	23562	23542	2141
15°	12899	12744	12830	12788	12765	3454
25°	3032	3146	3419	3066	2969	1451
35°	509	520	487	484	408	345
45°	134	166	166	166	135	95
55°	22	23	41	24	23	21
65°	7	7	7	7	7	7
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°	24328.9	24328.9	24328.9	24328.9	24328.9
2.5°	24167.7	24150.9	24160.5	24172.4	24177.2
5°	23540.6	23517.9	23513.1	23562.1	23541.8
7.5°	22275.6	22243.4	22194.4	22305.5	22409.4
10°	20156.6	20120.8	20014.5	20067.0	20151.9
12.5°	17028.3	16912.5	16910.1	17077.3	17054.6
15°	12899.1	12743.8	12829.8	12788.0	12765.3
17.5°	8674.2	8614.5	8729.2	8694.5	8545.2
20°	6239.9	6255.4	6474.0	6364.1	6231.5
22.5°	4553.3	4609.4	4868.6	4585.6	4481.6
25°	3031.6	3146.2	3418.6	3066.2	2969.4
27.5°	1864.6	1917.1	2193.0	1840.7	1788.1
30°	1159.8	1133.5	1263.7	1084.6	1010.5
32.5°	760.9	727.4	769.2	690.4	630.7
35°	508.8	519.6	487.3	483.8	408.5
37.5°	317.7	365.5	322.5	344.0	262.8
40°	205.4	265.2	228.1	252.0	193.5
42.5°	168.4	204.3	187.5	199.5	172.0
45°	133.8	166.0	166.0	166.0	135.0
47.5°	74.1	111.1	142.1	113.5	78.8
50°	41.8	56.1	109.9	58.5	44.2
52.5°	28.7	32.3	75.3	33.4	29.9
55°	21.5	22.7	40.6	23.9	22.7
57.5°	16.7	17.9	21.5	17.9	16.7
60°	13.1	13.1	15.5	14.3	13.1
62.5°	9.6	9.6	10.8	9.6	9.6
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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