

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: P755373

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755373
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-EU4DR3070959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 9374.5 lumens
Efficiency: N/A
Efficacy: 94.8 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

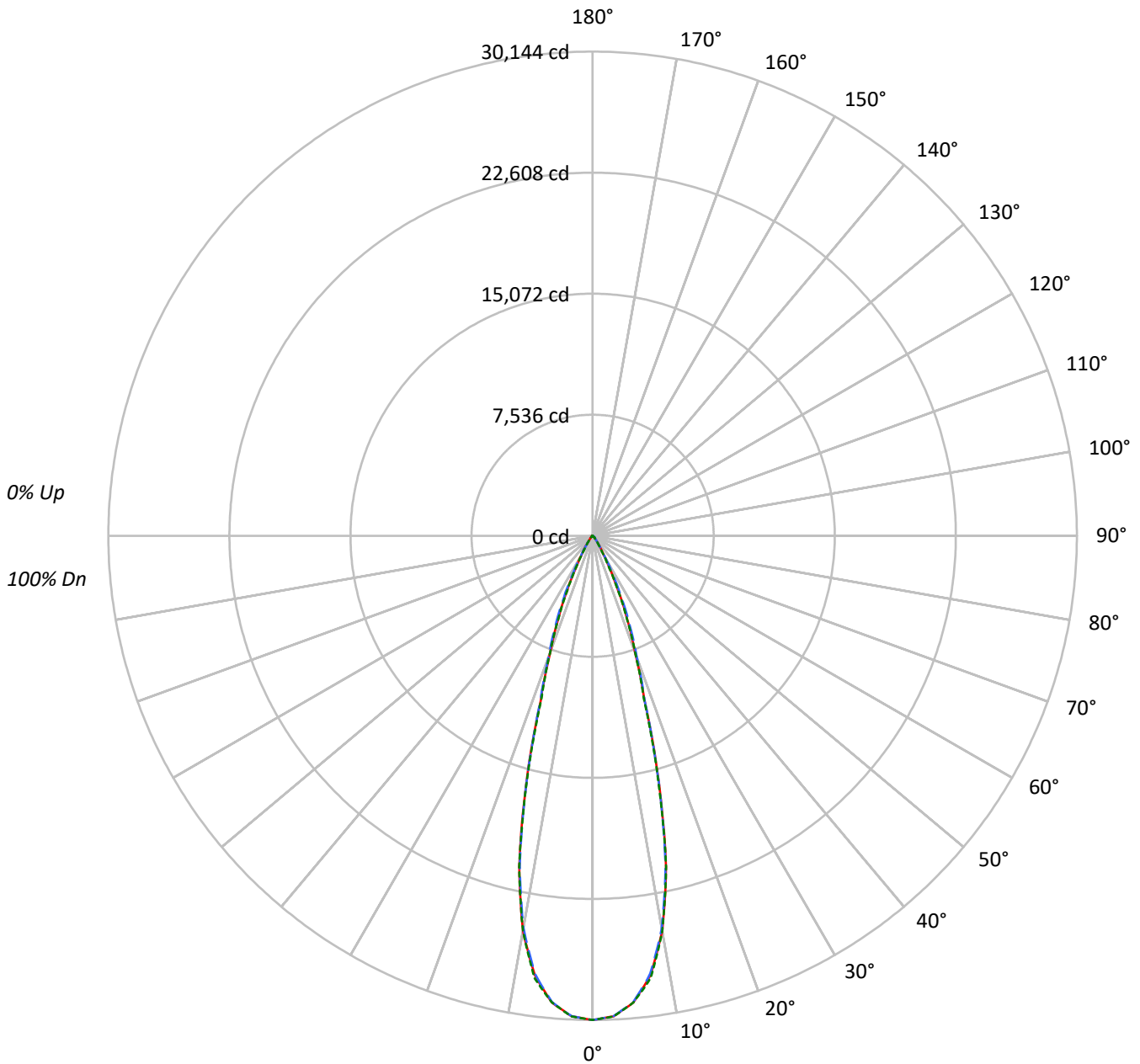


Downlight

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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°	2307301	2307301	2307301
5°	2241061	2238449	2241177
10°	1941100	1927413	1940641
15°	1266470	1259671	1253340
20°	629759	653381	628912
25°	317226	357723	310732
30°	127009	138393	110658
35°	58915	56420	47291
40°	25440	28247	23961
45°	17948	22267	18099
50°	6168	16219	6526
55°	3550	6713	3750
60°	2495	2939	2495
65°	1612	1612	1612
70°	985	671	985
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22267 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2650.7	28.3
10°-20°	4268.9	45.5
20°-30°	1844.7	19.7
30°-40°	420.5	4.5
40°-50°	144.4	1.5
50°-60°	35.3	0.4
60°-70°	9.1	0.1
70°-80°	1.0	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°	8764.3	93.5
0°-40°	9184.8	98.0
0°-60°	9364.4	99.9
0°-90°	9374.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9374.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30144	30144	30144	30144	30144	
5°	29167	29139	29133	29194	29168	2653
15°	15982	15790	15896	15844	15816	4279
25°	3756	3898	4236	3799	3679	1798
35°	630	644	604	599	506	428
45°	166	206	206	206	167	118
55°	27	28	50	30	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30143.7	30143.7	30143.7	30143.7	30143.7
2.5°	29943.9	29923.2	29935.0	29949.8	29955.7
5°	29166.9	29138.8	29132.9	29193.5	29168.4
7.5°	27599.6	27559.7	27499.0	27636.6	27765.4
10°	24974.2	24929.8	24798.1	24863.2	24968.3
12.5°	21098.2	20954.6	20951.7	21158.9	21130.8
15°	15982.0	15789.6	15896.2	15844.4	15816.3
17.5°	10747.4	10673.4	10815.5	10772.6	10587.6
20°	7731.3	7750.5	8021.3	7885.2	7720.9
22.5°	5641.6	5711.1	6032.3	5681.5	5552.8
25°	3756.1	3898.2	4235.6	3799.0	3679.2
27.5°	2310.2	2375.3	2717.2	2280.6	2215.5
30°	1437.0	1404.5	1565.8	1343.8	1252.0
32.5°	942.7	901.3	953.1	855.4	781.4
35°	630.5	643.8	603.8	599.4	506.1
37.5°	393.7	452.9	399.6	426.2	325.6
40°	254.6	328.5	282.7	312.3	239.8
42.5°	208.7	253.1	232.4	247.2	213.1
45°	165.8	205.7	205.7	205.7	167.2
47.5°	91.8	137.6	176.1	140.6	97.7
50°	51.8	69.6	136.2	72.5	54.8
52.5°	35.5	40.0	93.2	41.4	37.0
55°	26.6	28.1	50.3	29.6	28.1
57.5°	20.7	22.2	26.6	22.2	20.7
60°	16.3	16.3	19.2	17.8	16.3
62.5°	11.8	11.8	13.3	11.8	11.8
65°	8.9	8.9	8.9	8.9	8.9
67.5°	4.4	5.9	5.9	5.9	5.9
70°	4.4	3.0	3.0	3.0	4.4
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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

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

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