

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: P746017

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746017
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-EU4DR3020359040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2591.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

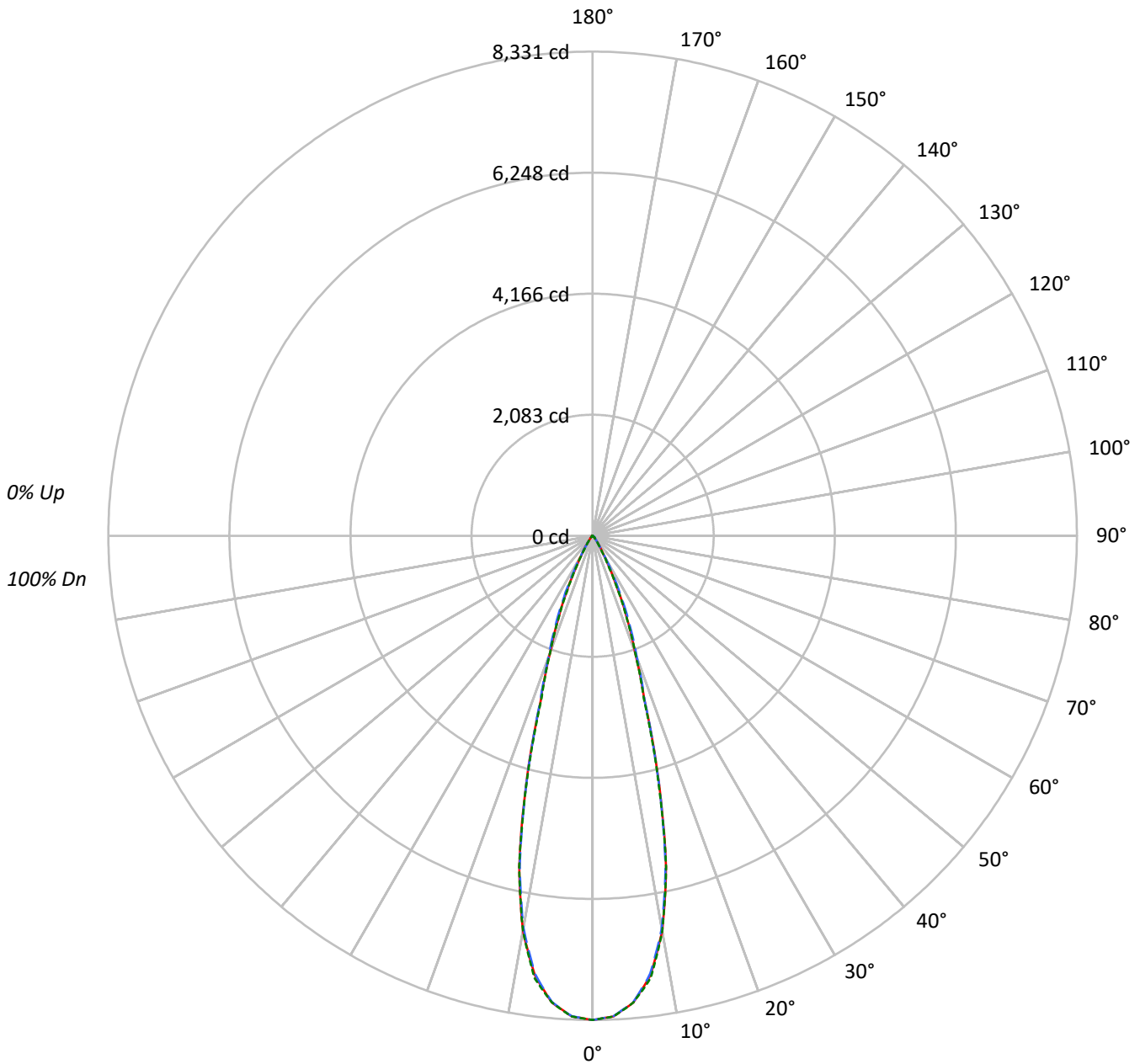


Downlight



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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	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°	637698	637698	637698
5°	619389	618666	619419
10°	536491	532706	536359
15°	350035	348149	346397
20°	174055	180587	173818
25°	87674	98873	85884
30°	35106	38244	30590
35°	16278	15596	13073
40°	7034	7814	6625
45°	4958	6149	5001
50°	1703	4477	1798
55°	988	1855	1041
60°	689	811	689
65°	453	453	453
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.6	28.3
10°-20°	1179.9	45.5
20°-30°	509.9	19.7
30°-40°	116.2	4.5
40°-50°	39.9	1.5
50°-60°	9.8	0.4
60°-70°	2.6	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°	2422.3	93.5
0°-40°	2538.5	98.0
0°-60°	2588.2	99.9
0°-90°	2591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8331	8331	8331	8331	8331	
5°	8061	8054	8052	8069	8062	733
15°	4417	4364	4393	4379	4371	1183
25°	1038	1077	1171	1050	1017	497
35°	174	178	167	166	140	118
45°	46	57	57	57	46	33
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8331.2	8331.2	8331.2	8331.2	8331.2
2.5°	8276.0	8270.3	8273.5	8277.6	8279.3
5°	8061.2	8053.5	8051.8	8068.6	8061.6
7.5°	7628.0	7617.0	7600.2	7638.3	7673.9
10°	6902.5	6890.1	6853.8	6871.7	6900.8
12.5°	5831.1	5791.5	5790.7	5847.9	5840.1
15°	4417.2	4364.0	4393.4	4379.1	4371.3
17.5°	2970.4	2950.0	2989.2	2977.3	2926.2
20°	2136.8	2142.1	2217.0	2179.3	2133.9
22.5°	1559.2	1578.5	1667.2	1570.3	1534.7
25°	1038.1	1077.4	1170.7	1050.0	1016.9
27.5°	638.5	656.5	751.0	630.3	612.3
30°	397.2	388.2	432.7	371.4	346.1
32.5°	260.6	249.1	263.4	236.4	215.9
35°	174.2	177.9	166.9	165.6	139.9
37.5°	108.8	125.2	110.5	117.8	90.0
40°	70.4	90.8	78.2	86.3	66.3
42.5°	57.7	70.0	64.2	68.3	58.9
45°	45.8	56.8	56.8	56.8	46.2
47.5°	25.4	38.0	48.7	38.8	27.0
50°	14.3	19.3	37.6	20.1	15.1
52.5°	9.8	11.1	25.8	11.5	10.2
55°	7.4	7.8	13.9	8.2	7.8
57.5°	5.7	6.1	7.4	6.1	5.7
60°	4.5	4.5	5.3	4.9	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.2	1.7	1.7	1.7	1.7
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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