

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: P746822

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746822
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: LD4D35BD010-EU4DR3020359050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

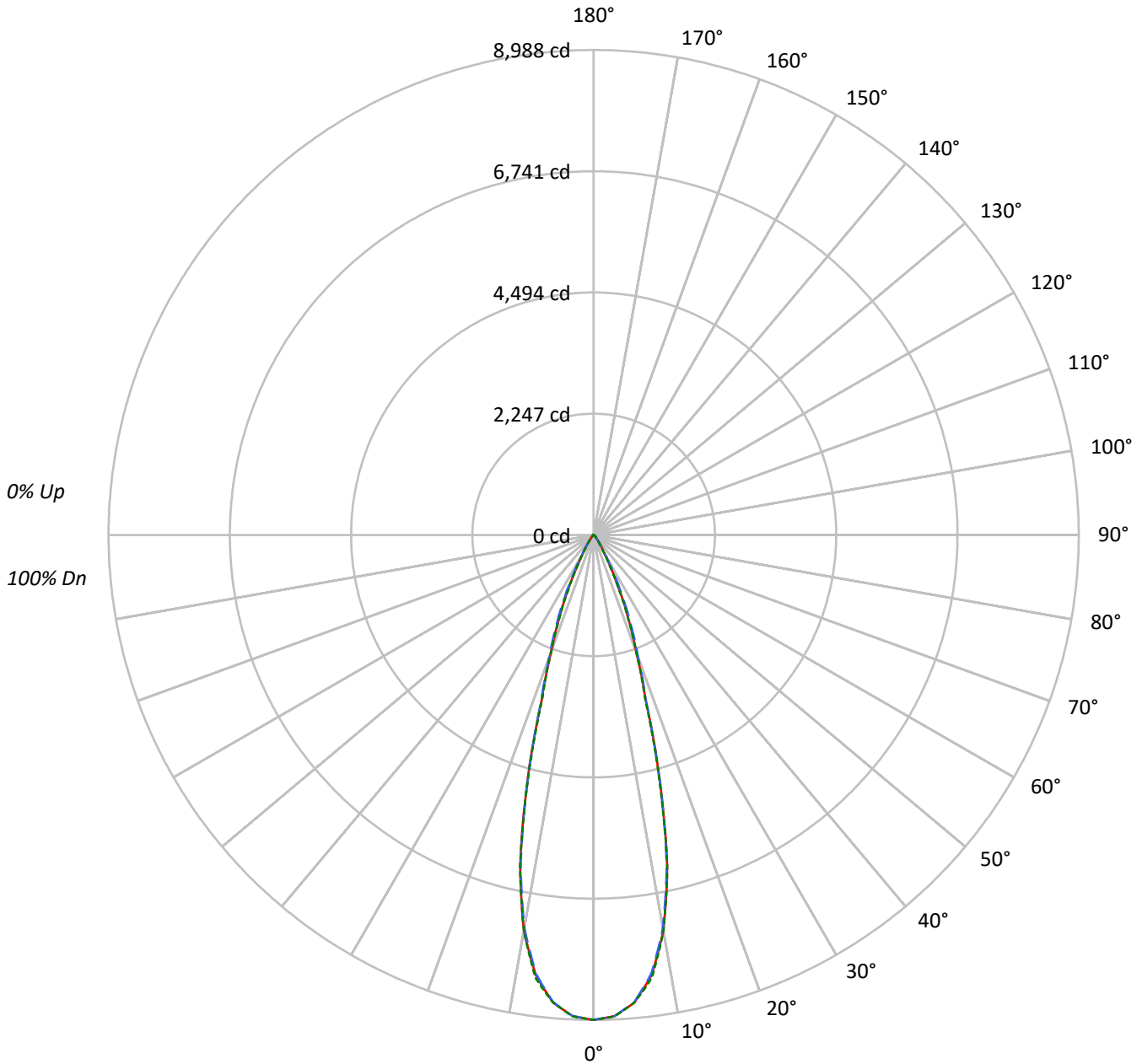
Lumens per Lamp: N/A
Luminaire Lumens: 2795.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): 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



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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°	687934	687934	687934
5°	668187	667403	668218
10°	578750	574669	578610
15°	377603	375575	373689
20°	187764	194810	187511
25°	94583	106660	92649
30°	37873	41258	32994
35°	17567	16820	14100
40°	7584	8423	7144
45°	5347	6636	5402
50°	1834	4835	1941
55°	1054	2002	1121
60°	750	873	750
65°	471	471	471
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6636 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.3	28.3
10°-20°	1272.8	45.5
20°-30°	550.0	19.7
30°-40°	125.4	4.5
40°-50°	43.0	1.5
50°-60°	10.5	0.4
60°-70°	2.7	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°	2613.1	93.5
0°-40°	2738.5	98.0
0°-60°	2792.0	99.9
0°-90°	2795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8988	8988	8988	8988	8988	
5°	8696	8688	8686	8704	8697	791
15°	4765	4708	4740	4724	4716	1276
25°	1120	1162	1263	1133	1097	536
35°	188	192	180	179	151	128
45°	49	61	61	61	50	35
55°	8	8	15	9	8	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°	8987.5	8987.5	8987.5	8987.5	8987.5
2.5°	8927.9	8921.7	8925.3	8929.7	8931.5
5°	8696.3	8687.9	8686.1	8704.2	8696.7
7.5°	8229.0	8217.1	8199.0	8240.0	8278.4
10°	7446.2	7433.0	7393.7	7413.1	7444.4
12.5°	6290.5	6247.7	6246.9	6308.6	6300.2
15°	4765.1	4707.8	4739.5	4724.1	4715.7
17.5°	3204.4	3182.3	3224.7	3211.9	3156.7
20°	2305.1	2310.9	2391.6	2351.0	2302.0
22.5°	1682.1	1702.8	1798.6	1694.0	1655.6
25°	1119.9	1162.3	1262.9	1132.7	1097.0
27.5°	688.8	708.2	810.1	680.0	660.6
30°	428.5	418.8	466.8	400.7	373.3
32.5°	281.1	268.7	284.2	255.0	233.0
35°	188.0	191.9	180.0	178.7	150.9
37.5°	117.4	135.0	119.1	127.1	97.1
40°	75.9	98.0	84.3	93.1	71.5
42.5°	62.2	75.5	69.3	73.7	63.5
45°	49.4	61.3	61.3	61.3	49.9
47.5°	27.4	41.0	52.5	41.9	29.1
50°	15.4	20.7	40.6	21.6	16.3
52.5°	10.6	11.9	27.8	12.4	11.0
55°	7.9	8.4	15.0	8.8	8.4
57.5°	6.2	6.6	7.9	6.6	6.2
60°	4.9	4.9	5.7	5.3	4.9
62.5°	3.5	3.5	4.0	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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

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Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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