

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: P748318

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748318
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: LD4D45BD010-EU4DR3040509027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

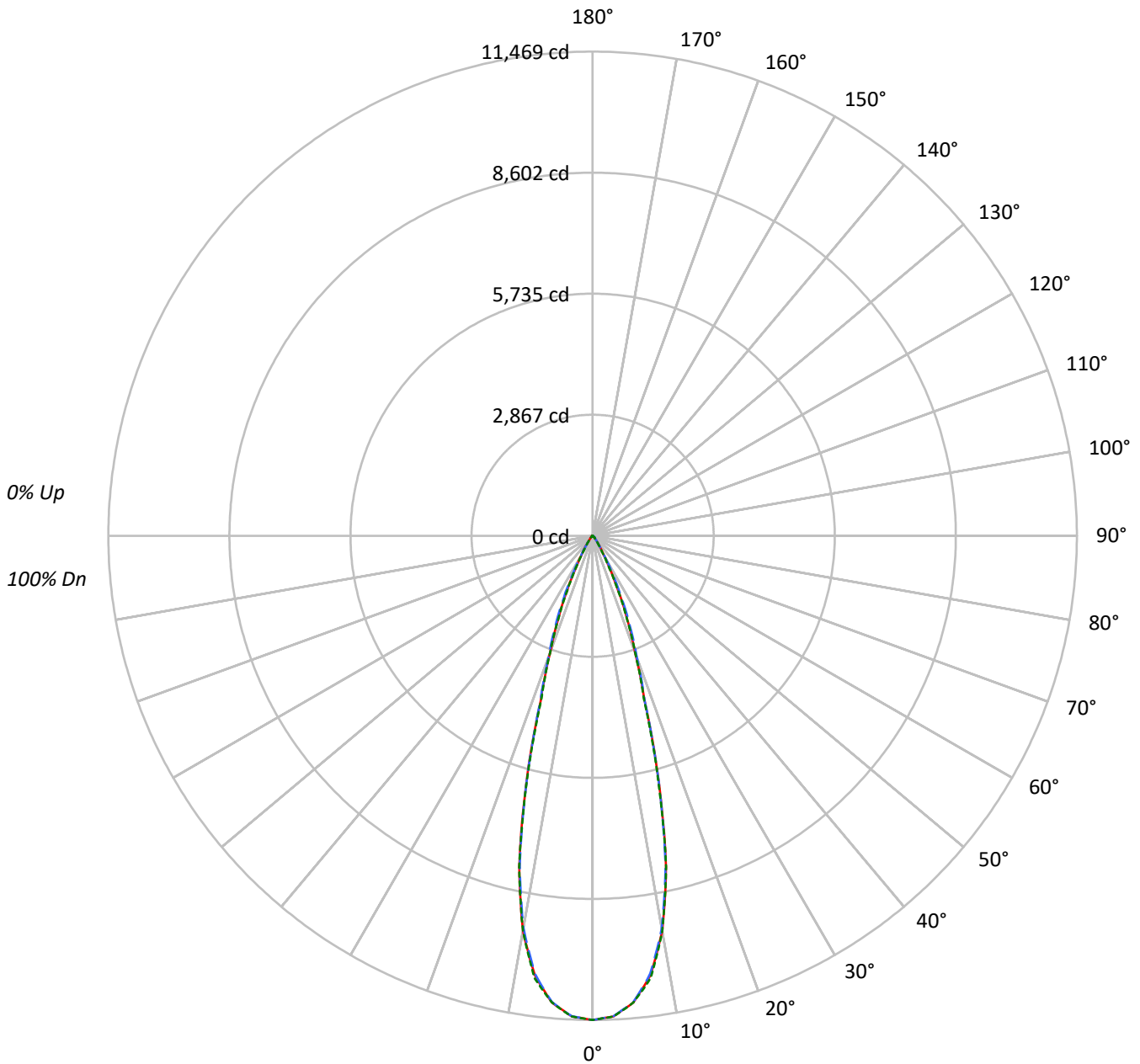
Lumens per Lamp: N/A
Luminaire Lumens: 3567.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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°	877907	877907	877907
5°	852708	851709	852747
10°	738574	733367	738395
15°	481880	479297	476888
20°	239618	248611	239293
25°	120705	136110	118230
30°	48329	52660	42106
35°	22417	21464	17997
40°	9682	10751	9113
45°	6830	8476	6885
50°	2346	6168	2477
55°	1348	2549	1428
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8476 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.6	28.3
10°-20°	1624.3	45.5
20°-30°	701.9	19.7
30°-40°	160.0	4.5
40°-50°	54.9	1.5
50°-60°	13.4	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3334.8	93.5
0°-40°	3494.8	98.0
0°-60°	3563.1	99.9
0°-90°	3567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11469	11469	11469	11469	11469	
5°	11098	11087	11085	11108	11098	1009
15°	6081	6008	6048	6029	6018	1628
25°	1429	1483	1612	1446	1400	684
35°	240	245	230	228	193	163
45°	63	78	78	78	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11469.4	11469.4	11469.4	11469.4	11469.4
2.5°	11393.4	11385.5	11390.0	11395.7	11397.9
5°	11097.8	11087.1	11084.8	11107.9	11098.3
7.5°	10501.5	10486.2	10463.2	10515.5	10564.5
10°	9502.5	9485.6	9435.5	9460.3	9500.2
12.5°	8027.7	7973.1	7972.0	8050.8	8040.1
15°	6081.0	6007.8	6048.4	6028.7	6018.0
17.5°	4089.3	4061.2	4115.2	4098.9	4028.5
20°	2941.7	2949.0	3052.1	3000.3	2937.7
22.5°	2146.6	2173.0	2295.2	2161.8	2112.8
25°	1429.2	1483.2	1611.6	1445.5	1399.9
27.5°	879.0	903.8	1033.9	867.8	843.0
30°	546.8	534.4	595.8	511.3	476.4
32.5°	358.7	342.9	362.6	325.5	297.3
35°	239.9	245.0	229.7	228.1	192.6
37.5°	149.8	172.3	152.0	162.2	123.9
40°	96.9	125.0	107.6	118.8	91.2
42.5°	79.4	96.3	88.4	94.0	81.1
45°	63.1	78.3	78.3	78.3	63.6
47.5°	34.9	52.4	67.0	53.5	37.2
50°	19.7	26.5	51.8	27.6	20.8
52.5°	13.5	15.2	35.5	15.8	14.1
55°	10.1	10.7	19.1	11.3	10.7
57.5°	7.9	8.4	10.1	8.4	7.9
60°	6.2	6.2	7.3	6.8	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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