

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: P756170

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756170  
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: LD4D95BD010-EU4DR3070959050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

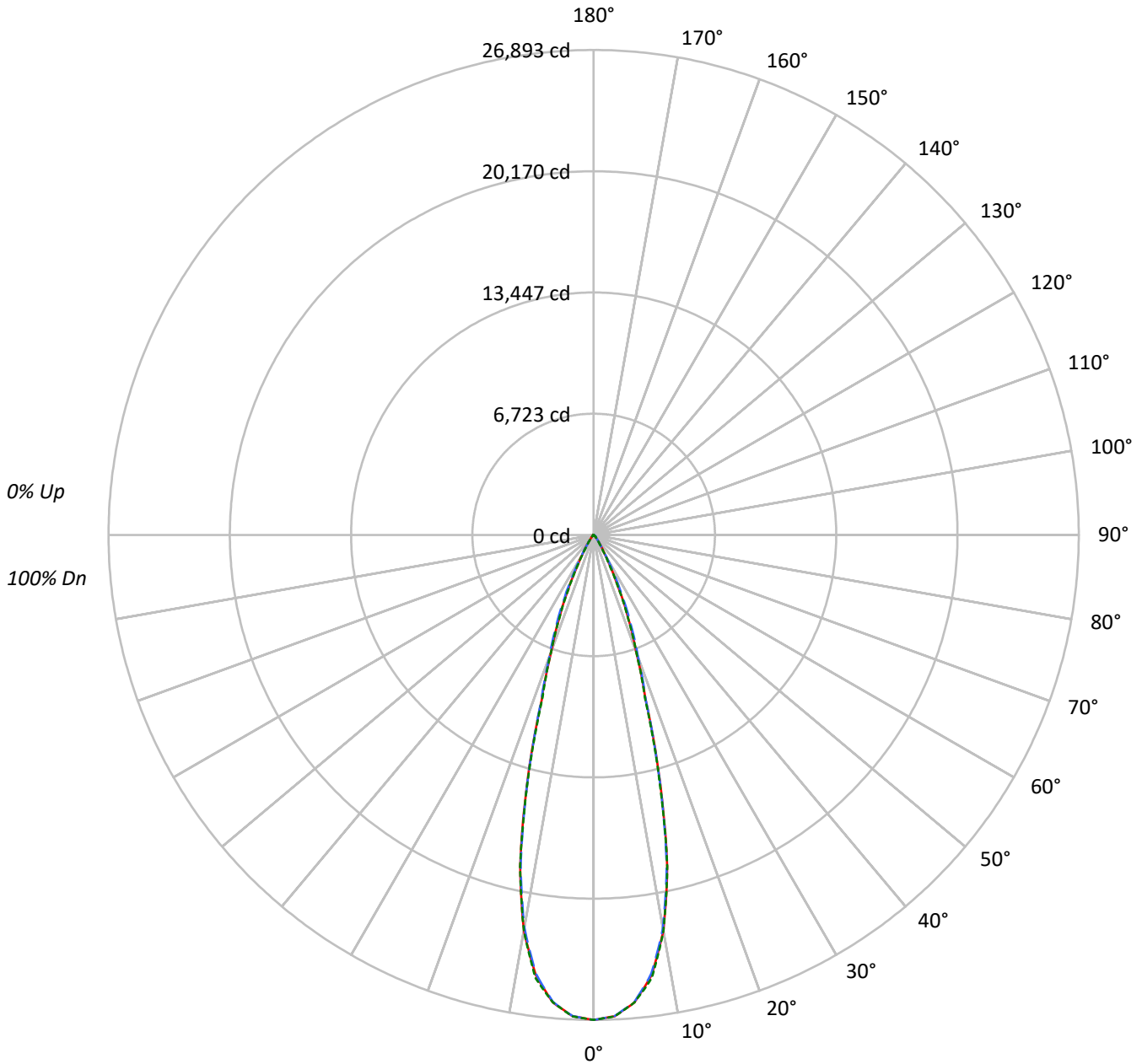
Lumens per Lamp: N/A  
Luminaire Lumens: 8363.5 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

CIE Type: Direct  
Input Watts (W): 99.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2058459	2058459	2058459
5°	1999367	1997031	1999467
10°	1731750	1719539	1731345
15°	1129886	1123816	1118166
20°	561841	582914	561084
25°	283013	319143	277219
30°	113318	123465	98726
35°	52561	50337	42199
40°	22692	25200	21373
45°	16010	19864	16151
50°	5502	14468	5823
55°	3176	5992	3350
60°	2220	2633	2220
65°	1431	1431	1431
70°	895	582	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 19864 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2364.8	28.3
10°-20°	3808.5	45.5
20°-30°	1645.8	19.7
30°-40°	375.1	4.5
40°-50°	128.8	1.5
50°-60°	31.5	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7819.1	93.5
0°-40°	8194.2	98.0
0°-60°	8354.5	99.9
0°-90°	8363.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8363.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26893	26893	26893	26893	26893	
5°	26021	25996	25991	26045	26023	2367
15°	14258	14087	14182	14136	14110	3818
25°	3351	3478	3779	3389	3282	1604
35°	562	574	539	535	452	382
45°	148	184	184	184	149	105
55°	24	25	45	26	25	23
65°	8	8	8	8	8	8
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°	26892.7	26892.7	26892.7	26892.7	26892.7
2.5°	26714.5	26696.0	26706.5	26719.7	26725.0
5°	26021.3	25996.2	25990.9	26045.0	26022.6
7.5°	24623.0	24587.4	24533.3	24656.0	24770.9
10°	22280.7	22241.1	22123.6	22181.7	22275.5
12.5°	18822.8	18694.7	18692.1	18876.9	18851.8
15°	14258.4	14086.7	14181.8	14135.6	14110.5
17.5°	9588.3	9522.3	9649.0	9610.8	9445.7
20°	6897.5	6914.6	7156.2	7034.8	6888.2
22.5°	5033.1	5095.2	5381.7	5068.8	4953.9
25°	3351.0	3477.8	3778.8	3389.3	3282.4
27.5°	2061.1	2119.1	2424.1	2034.6	1976.6
30°	1282.1	1253.0	1396.9	1198.9	1117.0
32.5°	841.1	804.1	850.3	763.2	697.1
35°	562.5	574.3	538.7	534.7	451.6
37.5°	351.2	404.0	356.5	380.3	290.5
40°	227.1	293.1	252.2	278.6	213.9
42.5°	186.2	225.8	207.3	220.5	190.1
45°	147.9	183.5	183.5	183.5	149.2
47.5°	81.9	122.8	157.1	125.4	87.1
50°	46.2	62.1	121.5	64.7	48.9
52.5°	31.7	35.6	83.2	37.0	33.0
55°	23.8	25.1	44.9	26.4	25.1
57.5°	18.5	19.8	23.8	19.8	18.5
60°	14.5	14.5	17.2	15.8	14.5
62.5°	10.6	10.6	11.9	10.6	10.6
65°	7.9	7.9	7.9	7.9	7.9
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.6	2.6	2.6	4.0
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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