

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: P753024

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753024  
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: LD4D75BD010-EU4DR3070959035-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6460.4 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

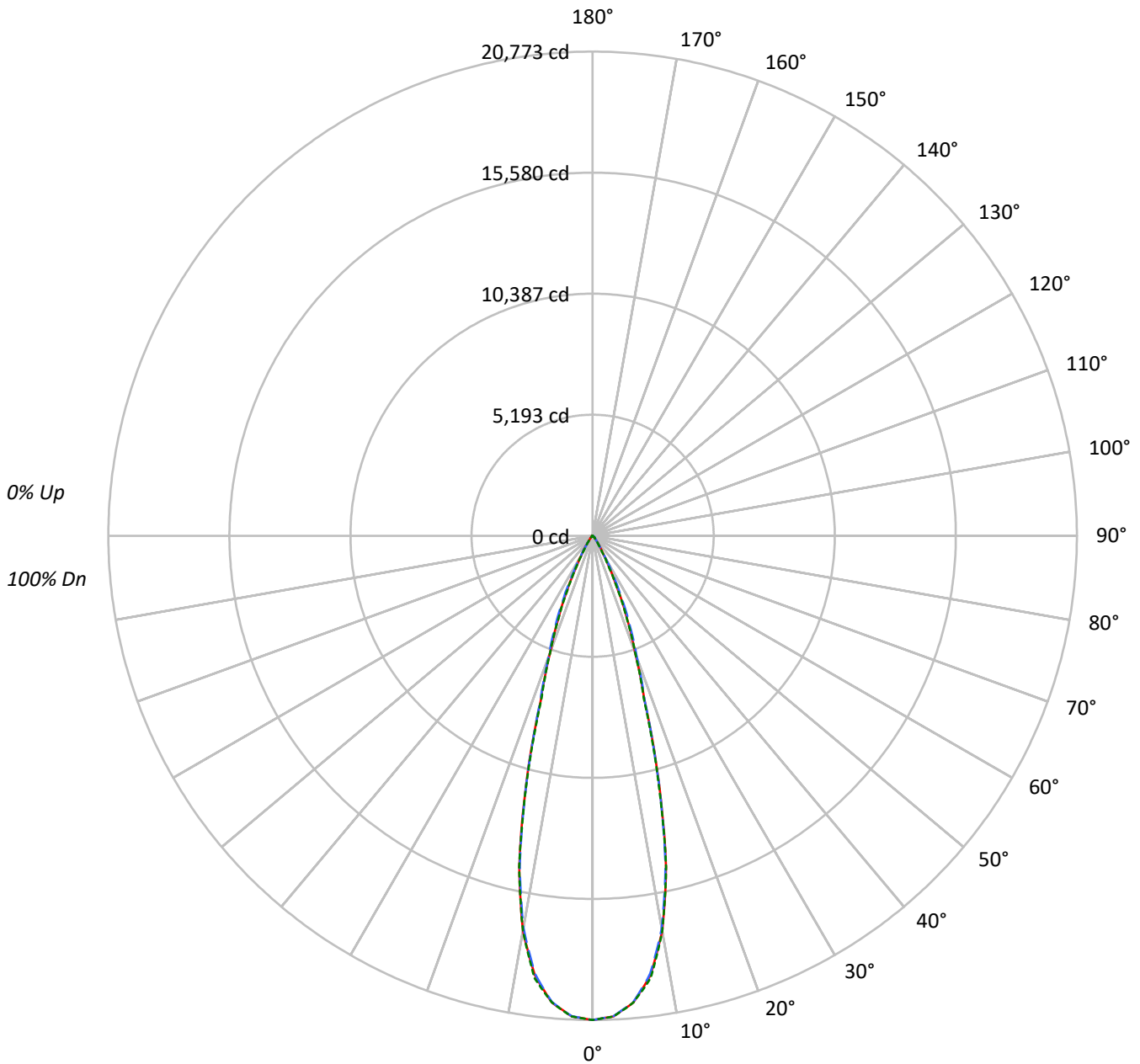
Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					70					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°	1590067	1590067	1590067
5°	1544422	1542617	1544499
10°	1337703	1328268	1337385
15°	872789	868097	863731
20°	433996	450279	433410
25°	218615	246528	214139
30°	87527	95376	76258
35°	40601	38881	32593
40°	17526	19464	16507
45°	12362	15350	12470
50°	4251	11170	4489
55°	2455	4631	2589
60°	1715	2036	1715
65°	1105	1105	1105
70°	694	448	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15350 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1826.7	28.3
10°-20°	2941.9	45.5
20°-30°	1271.3	19.7
30°-40°	289.8	4.5
40°-50°	99.5	1.5
50°-60°	24.3	0.4
60°-70°	6.3	0.1
70°-80°	0.7	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°	6039.9	93.5
0°-40°	6329.7	98.0
0°-60°	6453.5	99.9
0°-90°	6460.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6460.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20773	20773	20773	20773	20773	
5°	20100	20081	20077	20119	20101	1828
15°	11014	10881	10955	10919	10900	2949
25°	2588	2686	2919	2618	2536	1239
35°	434	444	416	413	349	295
45°	114	142	142	142	115	81
55°	18	19	35	20	19	18
65°	6	6	6	6	6	6
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°	20773.4	20773.4	20773.4	20773.4	20773.4
2.5°	20635.7	20621.5	20629.6	20639.8	20643.9
5°	20100.3	20080.9	20076.8	20118.6	20101.3
7.5°	19020.2	18992.7	18950.8	19045.7	19134.4
10°	17210.9	17180.3	17089.5	17134.4	17206.8
12.5°	14539.8	14440.8	14438.8	14581.6	14562.2
15°	11014.0	10881.4	10954.8	10919.1	10899.7
17.5°	7406.5	7355.6	7453.5	7423.9	7296.4
20°	5328.0	5341.2	5527.9	5434.1	5320.8
22.5°	3887.9	3935.8	4157.1	3915.4	3826.7
25°	2588.5	2686.4	2919.0	2618.1	2535.5
27.5°	1592.1	1636.9	1872.5	1571.7	1526.8
30°	990.3	967.9	1079.1	926.1	862.8
32.5°	649.7	621.1	656.8	589.5	538.5
35°	434.5	443.7	416.1	413.1	348.8
37.5°	271.3	312.1	275.4	293.7	224.4
40°	175.4	226.4	194.8	215.2	165.2
42.5°	143.8	174.4	160.1	170.3	146.9
45°	114.2	141.8	141.8	141.8	115.2
47.5°	63.2	94.9	121.4	96.9	67.3
50°	35.7	47.9	93.8	50.0	37.7
52.5°	24.5	27.5	64.3	28.6	25.5
55°	18.4	19.4	34.7	20.4	19.4
57.5°	14.3	15.3	18.4	15.3	14.3
60°	11.2	11.2	13.3	12.2	11.2
62.5°	8.2	8.2	9.2	8.2	8.2
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.0	2.0	2.0	3.1
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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