

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: P752998

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752998  
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-EU4DR3070959027-4LBCSSQMB  
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: 6205.6 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

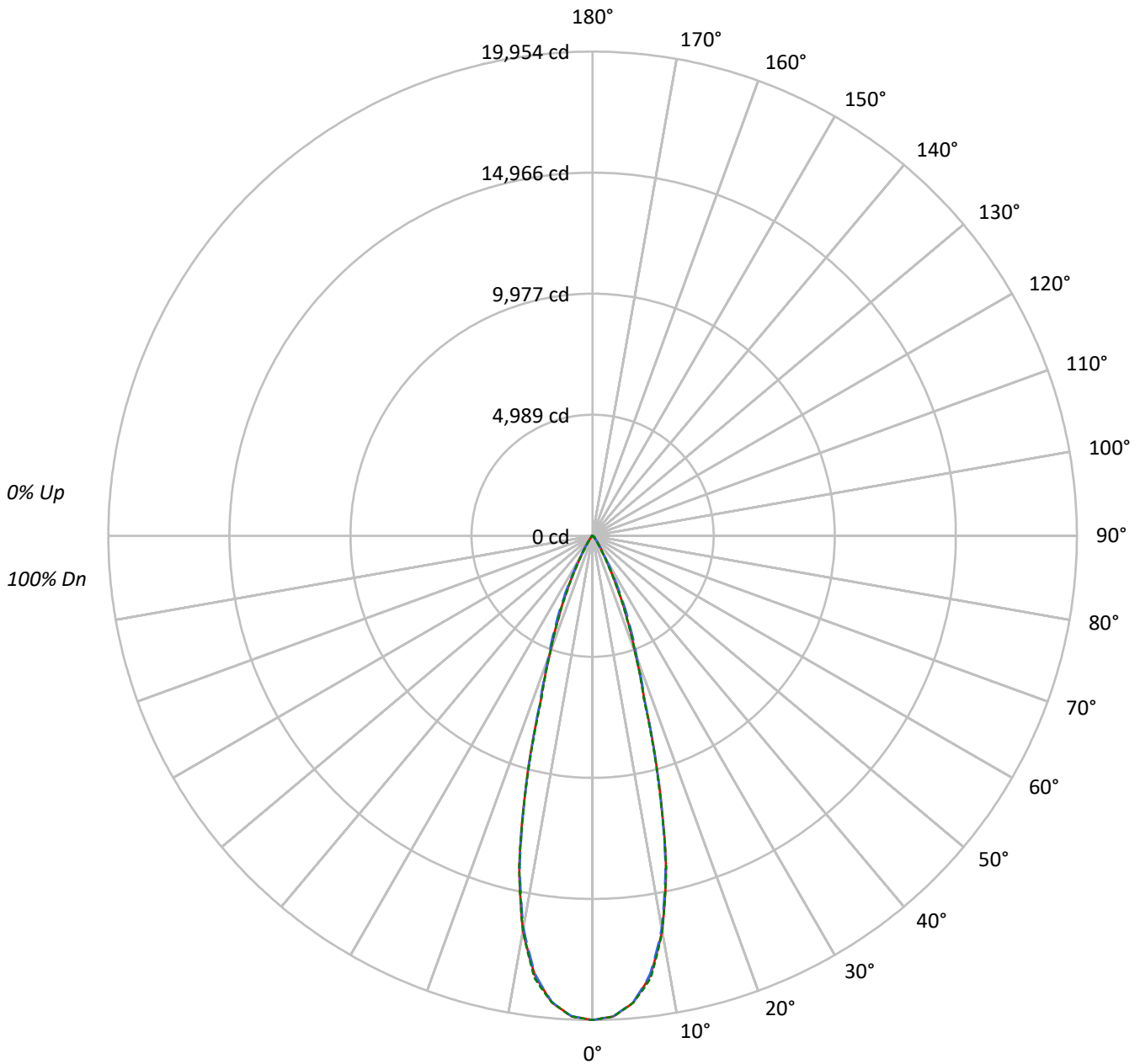
Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	1527339	1527339	1527339
5°	1483491	1481763	1483568
10°	1284929	1275866	1284626
15°	838349	833848	829656
20°	416874	432514	416312
25°	209992	236799	205693
30°	84080	91611	73253
35°	38993	37349	31303
40°	16837	18695	15857
45°	11875	14743	11983
50°	4084	10729	4311
55°	2349	4444	2482
60°	1653	1944	1653
65°	1069	1069	1069
70°	649	448	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14743 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1754.6	28.3
10°-20°	2825.9	45.5
20°-30°	1221.1	19.7
30°-40°	278.3	4.5
40°-50°	95.6	1.5
50°-60°	23.3	0.4
60°-70°	6.0	0.1
70°-80°	0.6	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°	5801.6	93.5
0°-40°	6080.0	98.0
0°-60°	6198.9	99.9
0°-90°	6205.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6205.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19954	19954	19954	19954	19954	
5°	19307	19289	19285	19325	19308	1756
15°	10579	10452	10523	10488	10470	2833
25°	2486	2580	2804	2515	2436	1190
35°	417	426	400	397	335	283
45°	110	136	136	136	111	78
55°	18	19	33	20	19	17
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°	19953.9	19953.9	19953.9	19953.9	19953.9
2.5°	19821.6	19807.9	19815.8	19825.5	19829.5
5°	19307.3	19288.7	19284.8	19324.9	19308.3
7.5°	18269.8	18243.4	18203.2	18294.3	18379.6
10°	16531.9	16502.5	16415.3	16458.4	16528.0
12.5°	13966.2	13871.1	13869.2	14006.3	13987.7
15°	10579.4	10452.1	10522.6	10488.3	10469.7
17.5°	7114.4	7065.4	7159.4	7131.0	7008.5
20°	5117.8	5130.5	5309.8	5219.7	5110.9
22.5°	3734.5	3780.5	3993.1	3760.9	3675.7
25°	2486.4	2580.4	2803.8	2514.8	2435.5
27.5°	1529.3	1572.4	1798.7	1509.7	1466.6
30°	951.3	929.7	1036.5	889.5	828.8
32.5°	624.0	596.6	630.9	566.2	517.3
35°	417.3	426.2	399.7	396.8	335.0
37.5°	260.6	299.8	264.5	282.1	215.5
40°	168.5	217.5	187.1	206.7	158.7
42.5°	138.1	167.5	153.8	163.6	141.1
45°	109.7	136.2	136.2	136.2	110.7
47.5°	60.7	91.1	116.6	93.1	64.7
50°	34.3	46.0	90.1	48.0	36.2
52.5°	23.5	26.5	61.7	27.4	24.5
55°	17.6	18.6	33.3	19.6	18.6
57.5°	13.7	14.7	17.6	14.7	13.7
60°	10.8	10.8	12.7	11.8	10.8
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
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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