

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: P753035

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753035  
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-EU4DR3070959035-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

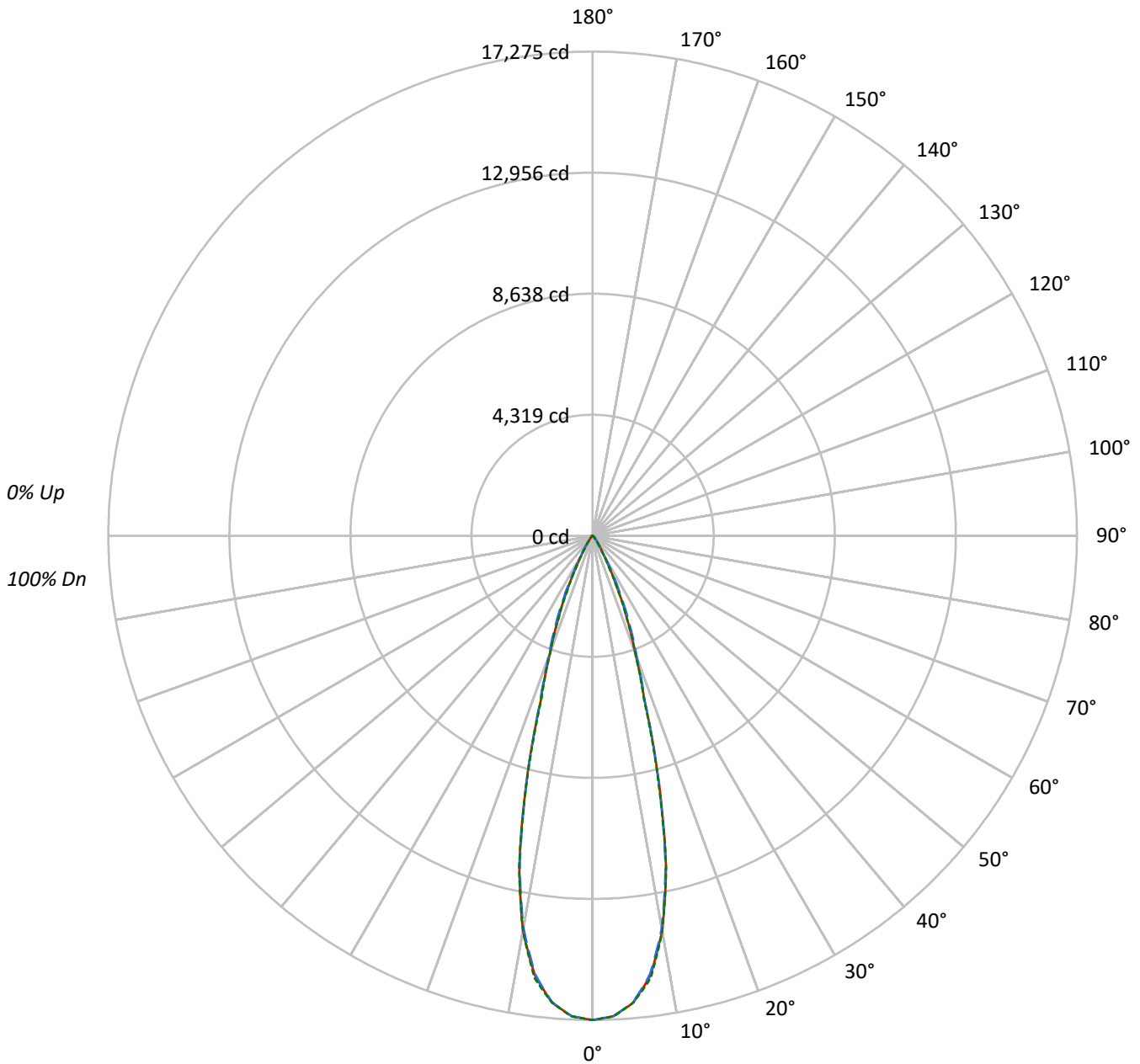
Lumens per Lamp: N/A  
Luminaire Lumens: 5372.3 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (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°	1322264	1322264	1322264
5°	1284302	1282804	1284372
10°	1112404	1104554	1112140
15°	725784	721885	718256
20°	360898	374444	360417
25°	181792	205001	178068
30°	72785	79308	63416
35°	33761	32331	27108
40°	14578	16187	13729
45°	10284	12763	10370
50°	3537	9288	3739
55°	2042	3843	2149
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12763 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1519.0	28.3
10°-20°	2446.4	45.5
20°-30°	1057.2	19.7
30°-40°	241.0	4.5
40°-50°	82.7	1.5
50°-60°	20.2	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	5022.6	93.5
0°-40°	5263.6	98.0
0°-60°	5366.5	99.9
0°-90°	5372.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5372.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17275	17275	17275	17275	17275	
5°	16715	16699	16695	16730	16716	1520
15°	9159	9049	9110	9080	9064	2452
25°	2152	2234	2427	2177	2108	1030
35°	361	369	346	344	290	245
45°	95	118	118	118	96	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17274.7	17274.7	17274.7	17274.7	17274.7
2.5°	17160.2	17148.3	17155.1	17163.6	17167.0
5°	16714.9	16698.8	16695.4	16730.2	16715.8
7.5°	15816.7	15793.8	15759.1	15837.9	15911.7
10°	14312.2	14286.7	14211.2	14248.5	14308.8
12.5°	12090.9	12008.6	12006.9	12125.7	12109.6
15°	9158.9	9048.7	9109.7	9080.1	9063.9
17.5°	6159.1	6116.7	6198.1	6173.5	6067.5
20°	4430.6	4441.6	4596.9	4518.8	4424.7
22.5°	3233.1	3272.9	3457.0	3256.0	3182.2
25°	2152.5	2234.0	2427.3	2177.1	2108.4
27.5°	1323.9	1361.2	1557.2	1307.0	1269.6
30°	823.5	804.9	897.3	770.1	717.5
32.5°	540.3	516.5	546.2	490.2	447.8
35°	361.3	368.9	346.0	343.5	290.1
37.5°	225.6	259.5	229.0	244.3	186.6
40°	145.9	188.3	162.0	179.0	137.4
42.5°	119.6	145.0	133.2	141.6	122.1
45°	95.0	117.9	117.9	117.9	95.8
47.5°	52.6	78.9	100.9	80.6	56.0
50°	29.7	39.9	78.0	41.6	31.4
52.5°	20.4	22.9	53.4	23.7	21.2
55°	15.3	16.1	28.8	17.0	16.1
57.5°	11.9	12.7	15.3	12.7	11.9
60°	9.3	9.3	11.0	10.2	9.3
62.5°	6.8	6.8	7.6	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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