

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: P746808

Luminaire Tested: LD4D35BD010-EU4DR3020359040-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746808  
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: LD4D35BD010-EU4DR3020359040-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

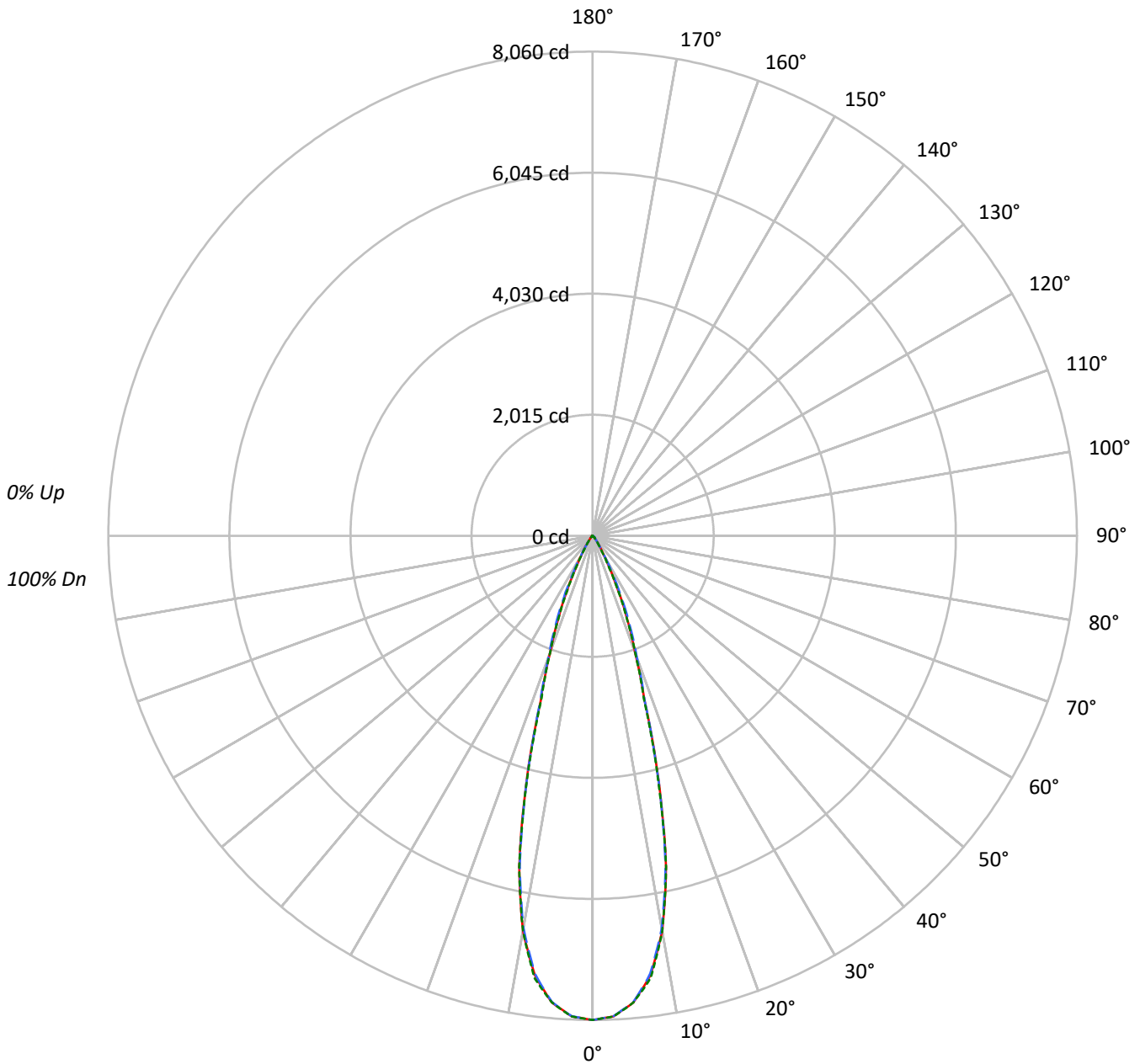
Lumens per Lamp: N/A  
Luminaire Lumens: 2506.7 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

CIE Type: Direct  
  
Input Watts (W): 30.8  
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					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	100	100	100	100	100		
	1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	96	96	96	96	96		
	2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	92	92	92	92	92		
	3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	89	89	89		
	4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85	85	85	85	85	85		
	5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82	82	82	82	82	82		
	6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79	79	79	79	79	79		
	7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77	77	77	77	77	77		
	8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74	74	74	74	74		
	9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72	72	72	72	72		
	10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69	69	69	69	69	69		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	616955	616955	616955
5°	599242	598543	599273
10°	519034	515374	518910
15°	338647	336825	335137
20°	168394	174715	168165
25°	84828	95655	83088
30°	33966	37007	29591
35°	15754	15091	12643
40°	6805	7554	6405
45°	4795	5954	4839
50°	1655	4335	1739
55°	947	1802	1001
60°	674	781	674
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5954 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	708.8	28.3
10°-20°	1141.5	45.5
20°-30°	493.3	19.7
30°-40°	112.4	4.5
40°-50°	38.6	1.5
50°-60°	9.4	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2343.5	93.5
0°-40°	2455.9	98.0
0°-60°	2504.0	99.9
0°-90°	2506.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8060	8060	8060	8060	8060	
5°	7799	7792	7790	7806	7799	709
15°	4274	4222	4250	4237	4229	1144
25°	1004	1042	1133	1016	984	481
35°	169	172	162	160	135	114
45°	44	55	55	55	45	31
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8060.2	8060.2	8060.2	8060.2	8060.2
2.5°	8006.8	8001.3	8004.4	8008.4	8010.0
5°	7799.0	7791.5	7789.9	7806.2	7799.4
7.5°	7380.0	7369.3	7353.0	7389.8	7424.3
10°	6677.9	6666.1	6630.8	6648.3	6676.3
12.5°	5641.5	5603.1	5602.3	5657.7	5650.2
15°	4273.5	4222.0	4250.5	4236.7	4229.2
17.5°	2873.8	2854.0	2892.0	2880.5	2831.0
20°	2067.3	2072.4	2144.9	2108.4	2064.5
22.5°	1508.5	1527.1	1613.0	1519.2	1484.8
25°	1004.4	1042.4	1132.6	1015.8	983.8
27.5°	617.7	635.1	726.6	609.8	592.4
30°	384.3	375.5	418.7	359.3	334.8
32.5°	252.1	241.0	254.8	228.7	208.9
35°	168.6	172.1	161.5	160.3	135.3
37.5°	105.3	121.1	106.8	114.0	87.1
40°	68.1	87.9	75.6	83.5	64.1
42.5°	55.8	67.7	62.1	66.1	57.0
45°	44.3	55.0	55.0	55.0	44.7
47.5°	24.5	36.8	47.1	37.6	26.1
50°	13.9	18.6	36.4	19.4	14.6
52.5°	9.5	10.7	24.9	11.1	9.9
55°	7.1	7.5	13.5	7.9	7.5
57.5°	5.5	5.9	7.1	5.9	5.5
60°	4.4	4.4	5.1	4.7	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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