

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: P747527

Luminaire Tested: LD4D40BD010-EU4DR3040509024-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747527  
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: LD4D40BD010-EU4DR3040509024-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2875.1 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

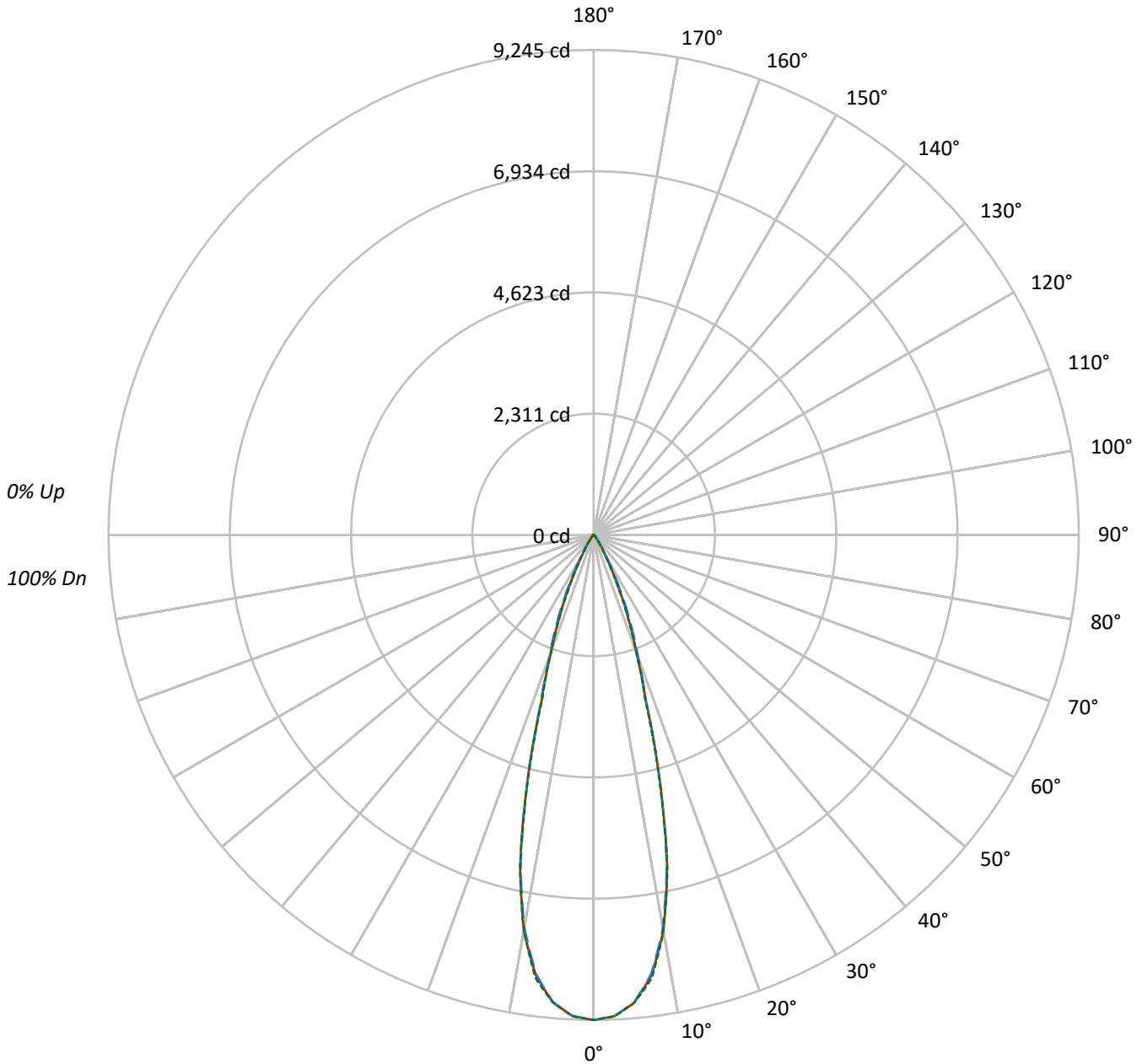
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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
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°	707628	707628	707628
5°	687311	686512	687350
10°	595313	591116	595173
15°	388412	386328	384387
20°	193140	200389	192879
25°	97294	109709	95300
30°	38951	42442	33940
35°	18072	17306	14502
40°	7804	8663	7344
45°	5499	6830	5553
50°	1893	4978	2001
55°	1094	2055	1148
60°	765	903	765
65°	489	489	489
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6830 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	812.9	28.3
10°-20°	1309.2	45.5
20°-30°	565.8	19.7
30°-40°	128.9	4.5
40°-50°	44.3	1.5
50°-60°	10.8	0.4
60°-70°	2.8	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°	2687.9	93.5
0°-40°	2816.9	98.0
0°-60°	2872.0	99.9
0°-90°	2875.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2875.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9245	9245	9245	9245	9245	
5°	8945	8937	8935	8953	8946	814
15°	4902	4842	4875	4859	4851	1312
25°	1152	1196	1299	1165	1128	551
35°	193	197	185	184	155	131
45°	51	63	63	63	51	36
55°	8	9	15	9	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9244.8	9244.8	9244.8	9244.8	9244.8
2.5°	9183.5	9177.1	9180.8	9185.3	9187.1
5°	8945.2	8936.6	8934.8	8953.4	8945.7
7.5°	8464.5	8452.3	8433.7	8475.9	8515.4
10°	7659.3	7645.7	7605.3	7625.3	7657.5
12.5°	6470.6	6426.6	6425.7	6489.2	6480.6
15°	4901.5	4842.5	4875.2	4859.3	4850.7
17.5°	3296.1	3273.4	3317.0	3303.8	3247.1
20°	2371.1	2377.0	2460.1	2418.3	2367.9
22.5°	1730.2	1751.6	1850.0	1742.5	1703.0
25°	1152.0	1195.5	1299.0	1165.1	1128.4
27.5°	708.5	728.5	833.3	699.4	679.5
30°	440.7	430.7	480.2	412.1	384.0
32.5°	289.1	276.4	292.3	262.3	239.7
35°	193.4	197.4	185.2	183.8	155.2
37.5°	120.7	138.9	122.5	130.7	99.9
40°	78.1	100.8	86.7	95.8	73.5
42.5°	64.0	77.6	71.3	75.8	65.4
45°	50.8	63.1	63.1	63.1	51.3
47.5°	28.1	42.2	54.0	43.1	30.0
50°	15.9	21.3	41.8	22.2	16.8
52.5°	10.9	12.3	28.6	12.7	11.3
55°	8.2	8.6	15.4	9.1	8.6
57.5°	6.4	6.8	8.2	6.8	6.4
60°	5.0	5.0	5.9	5.4	5.0
62.5°	3.6	3.6	4.1	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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