

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P748316

Luminaire Tested: LD4D45BD010-EU4DR3040509024-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748316  
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: LD4D45BD010-EU4DR3040509024-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2618.5 lumens  
Efficiency: N/A  
Efficacy: 67.7 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')

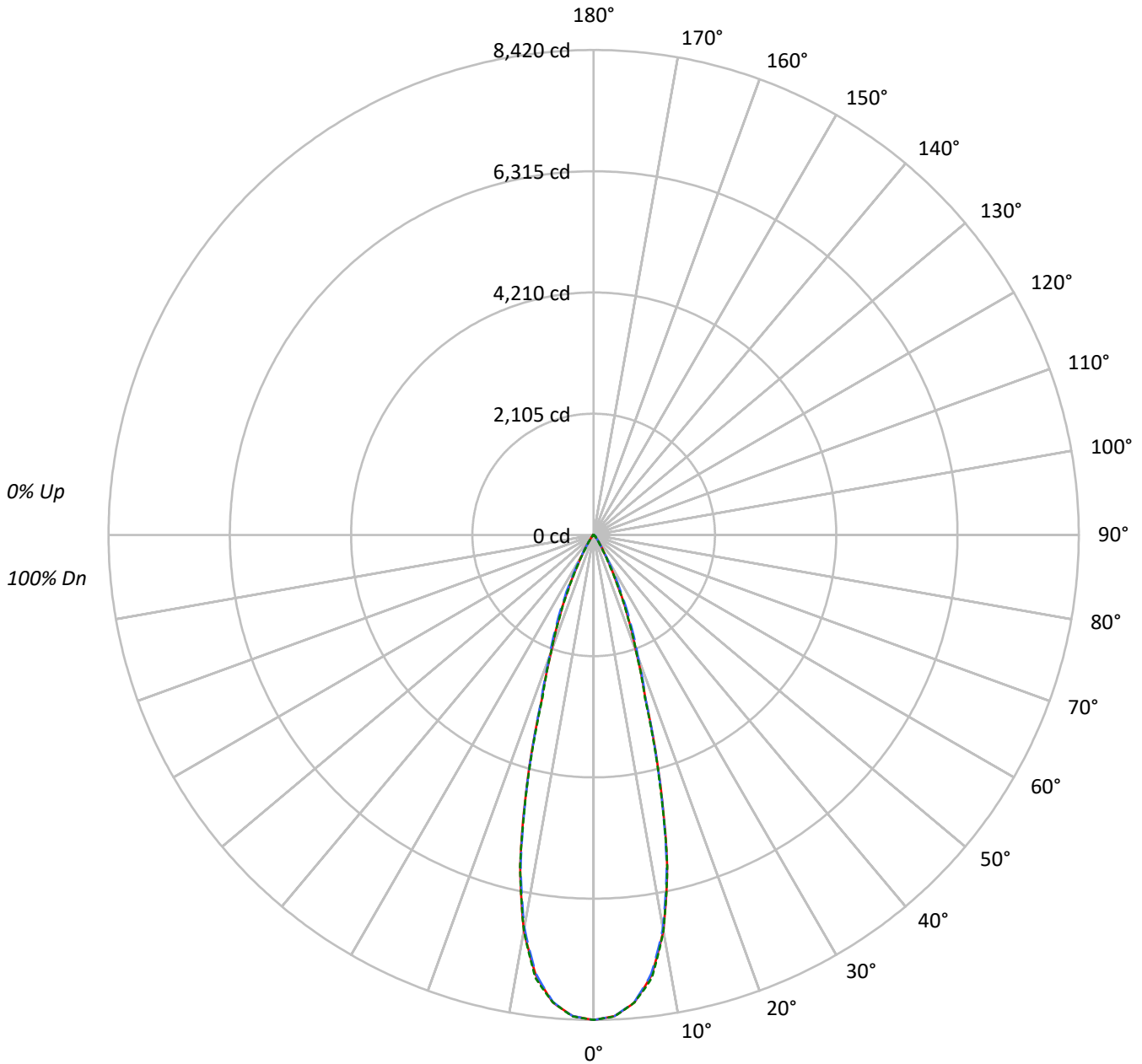
CIE Type: Direct

Input Watts (W): 38.7  
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									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°	644472	644472	644472
5°	625973	625243	626004
10°	542188	538364	542056
15°	353751	351849	350082
20°	175904	182502	175668
25°	88612	99920	86796
30°	35478	38659	30908
35°	16455	15764	13213
40°	7104	7894	6695
45°	5012	6224	5055
50°	1727	4525	1822
55°	988	1882	1054
60°	689	827	689
65°	453	453	453
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: 6224 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	740.4	28.3
10°-20°	1192.4	45.5
20°-30°	515.3	19.7
30°-40°	117.4	4.5
40°-50°	40.3	1.5
50°-60°	9.9	0.4
60°-70°	2.6	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°	2448.1	93.5
0°-40°	2565.5	98.0
0°-60°	2615.7	99.9
0°-90°	2618.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2618.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8420	8420	8420	8420	8420	
5°	8147	8139	8137	8154	8147	741
15°	4464	4410	4440	4426	4418	1195
25°	1049	1089	1183	1061	1028	502
35°	176	180	169	167	141	119
45°	46	58	58	58	47	33
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8419.7	8419.7	8419.7	8419.7	8419.7
2.5°	8363.9	8358.1	8361.4	8365.6	8367.2
5°	8146.9	8139.0	8137.4	8154.3	8147.3
7.5°	7709.1	7698.0	7681.0	7719.5	7755.4
10°	6975.8	6963.4	6926.6	6944.8	6974.1
12.5°	5893.2	5853.1	5852.2	5910.1	5902.2
15°	4464.1	4410.4	4440.1	4425.7	4417.8
17.5°	3002.0	2981.3	3021.0	3009.0	2957.3
20°	2159.5	2164.9	2240.5	2202.5	2156.6
22.5°	1575.8	1595.2	1684.9	1587.0	1551.0
25°	1049.2	1088.8	1183.1	1061.1	1027.7
27.5°	645.3	663.5	759.0	637.0	618.8
30°	401.4	392.3	437.4	375.3	349.7
32.5°	263.3	251.7	266.2	238.9	218.3
35°	176.1	179.8	168.7	167.4	141.4
37.5°	110.0	126.5	111.6	119.1	90.9
40°	71.1	91.8	79.0	87.2	67.0
42.5°	58.3	70.7	64.9	69.0	59.5
45°	46.3	57.5	57.5	57.5	46.7
47.5°	25.6	38.4	49.2	39.3	27.3
50°	14.5	19.4	38.0	20.3	15.3
52.5°	9.9	11.2	26.0	11.6	10.3
55°	7.4	7.9	14.1	8.3	7.9
57.5°	5.8	6.2	7.4	6.2	5.8
60°	4.5	4.5	5.4	5.0	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.2	1.7	1.7	1.7	1.7
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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)