

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: P754582

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754582  
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: LD4D85BD010-EU4DR3070959030-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6008.1 lumens  
Efficiency: N/A  
Efficacy: 68.5 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')

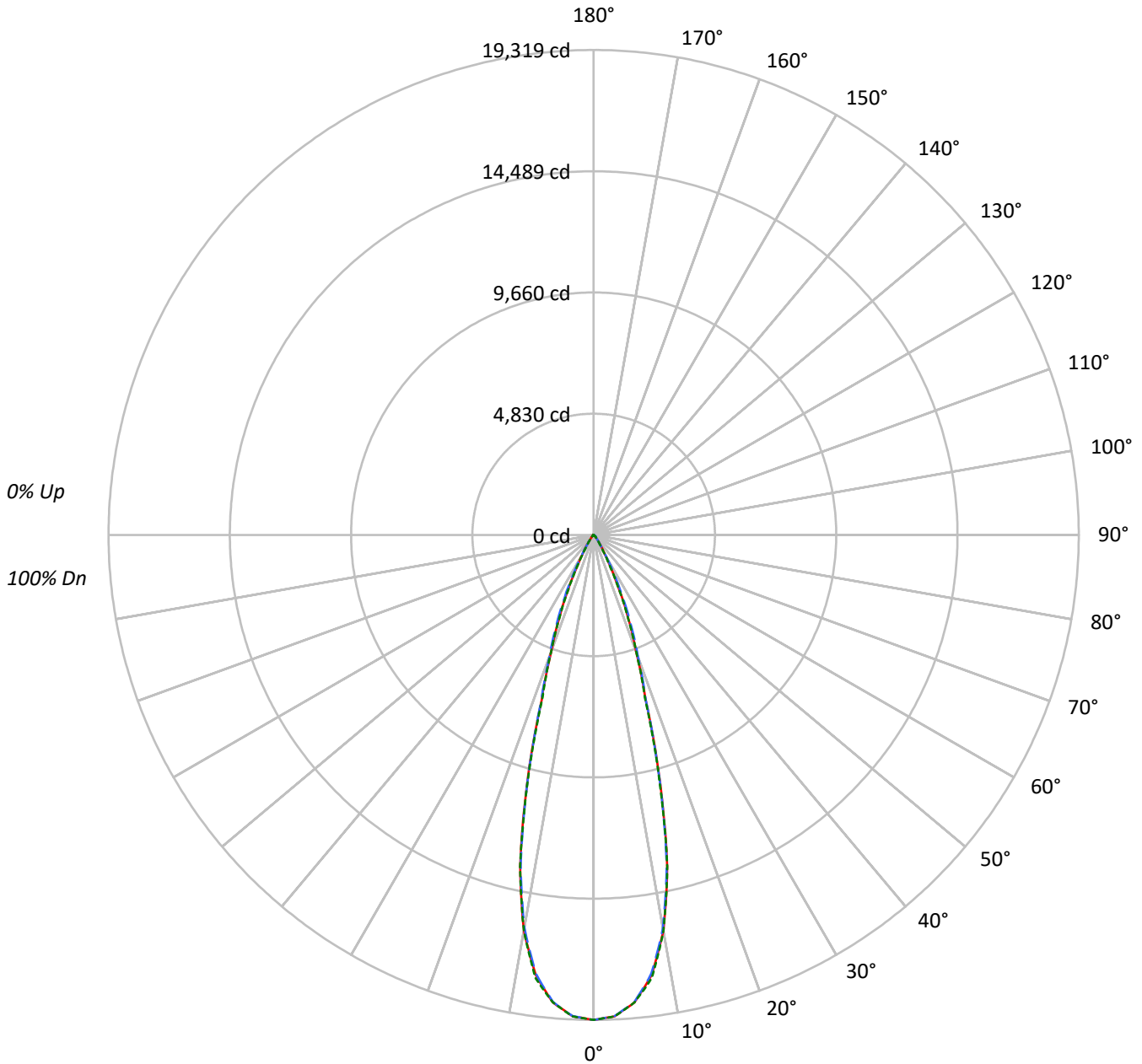
CIE Type: Direct

Input Watts (W): 87.7  
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					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								
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°	1478734	1478734	1478734
5°	1436284	1434609	1436353
10°	1244038	1235263	1243743
15°	811676	807310	803252
20°	403605	418748	403068
25°	203312	229265	199148
30°	81402	88694	70920
35°	37760	36162	30313
40°	16297	18106	15358
45°	11496	14267	11604
50°	3953	10396	4180
55°	2282	4297	2402
60°	1592	1883	1592
65°	1032	1032	1032
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14267 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1698.8	28.3
10°-20°	2735.9	45.5
20°-30°	1182.3	19.7
30°-40°	269.5	4.5
40°-50°	92.5	1.5
50°-60°	22.6	0.4
60°-70°	5.9	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°	5617.0	93.5
0°-40°	5886.5	98.0
0°-60°	6001.6	99.9
0°-90°	6008.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6008.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19319	19319	19319	19319	19319	
5°	18693	18675	18671	18710	18694	1700
15°	10243	10120	10188	10155	10136	2743
25°	2407	2498	2715	2435	2358	1152
35°	404	413	387	384	324	274
45°	106	132	132	132	107	75
55°	17	18	32	19	18	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°	19318.9	19318.9	19318.9	19318.9	19318.9
2.5°	19190.8	19177.6	19185.1	19194.6	19198.4
5°	18692.9	18674.9	18671.1	18709.9	18693.8
7.5°	17688.4	17662.8	17623.9	17712.1	17794.7
10°	16005.8	15977.3	15892.9	15934.7	16002.0
12.5°	13521.7	13429.7	13427.8	13560.6	13542.6
15°	10242.8	10119.5	10187.7	10154.6	10136.5
17.5°	6887.9	6840.5	6931.6	6904.1	6785.5
20°	4954.9	4967.3	5140.8	5053.6	4948.3
22.5°	3615.6	3660.2	3866.1	3641.3	3558.7
25°	2407.3	2498.3	2714.6	2434.8	2358.0
27.5°	1480.6	1522.3	1741.4	1461.6	1419.9
30°	921.0	900.1	1003.5	861.2	802.4
32.5°	604.2	577.6	610.8	548.2	500.8
35°	404.1	412.6	387.0	384.1	324.4
37.5°	252.3	290.2	256.1	273.2	208.7
40°	163.1	210.6	181.2	200.1	153.7
42.5°	133.7	162.2	148.9	158.4	136.6
45°	106.2	131.8	131.8	131.8	107.2
47.5°	58.8	88.2	112.9	90.1	62.6
50°	33.2	44.6	87.3	46.5	35.1
52.5°	22.8	25.6	59.8	26.6	23.7
55°	17.1	18.0	32.2	19.0	18.0
57.5°	13.3	14.2	17.1	14.2	13.3
60°	10.4	10.4	12.3	11.4	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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