

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: P756142

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756142  
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: LD4D95BD010-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: 6528.4 lumens  
Efficiency: N/A  
Efficacy: 65.8 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')

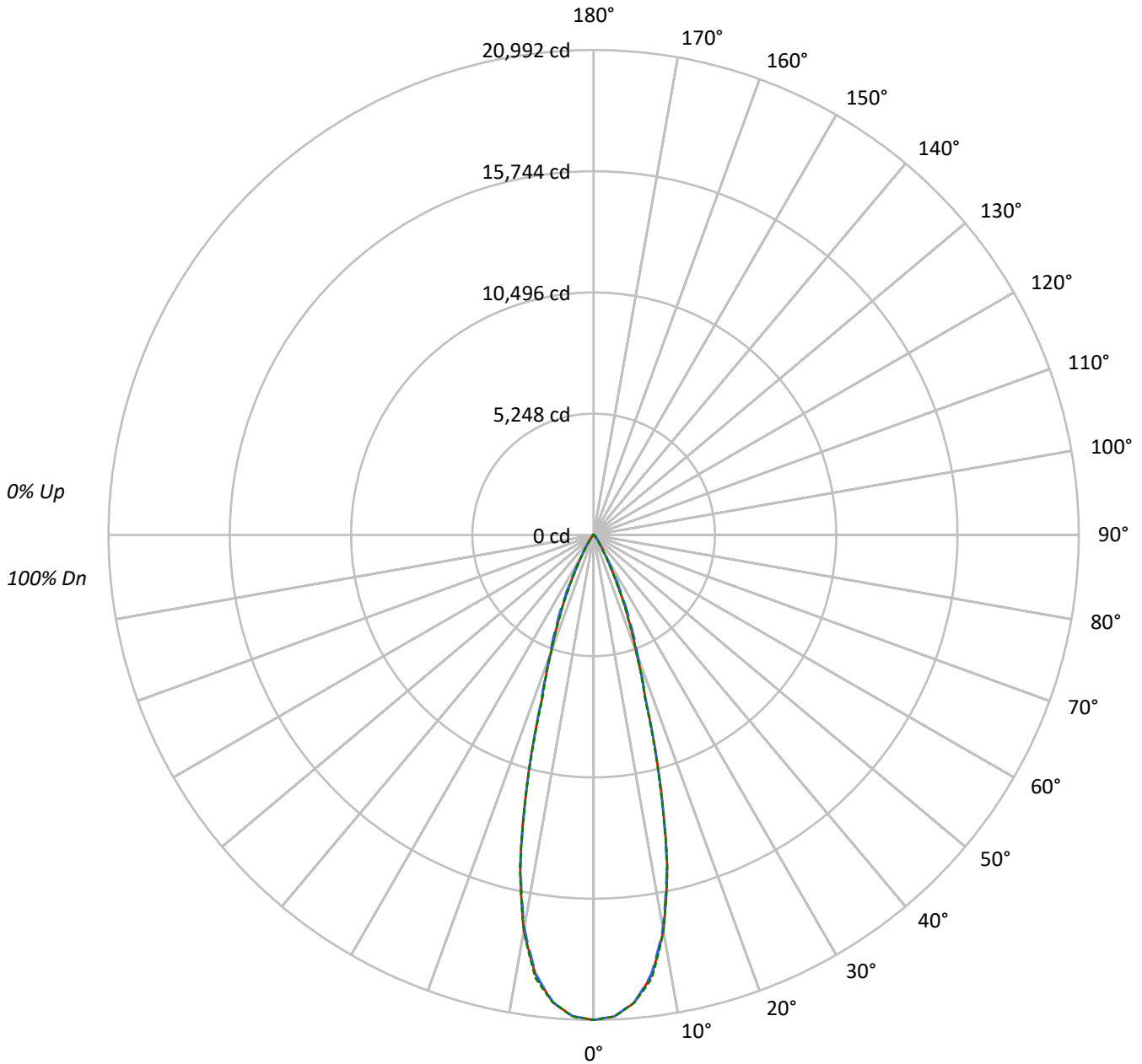
CIE Type: Direct

Input Watts (W): 99.2  
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°	1606784	1606784	1606784
5°	1560658	1558837	1560742
10°	1351772	1342235	1351445
15°	881965	877226	872812
20°	438558	455012	437971
25°	220912	249121	216385
30°	88447	96375	77063
35°	41021	39292	32938
40°	17716	19674	16687
45°	12492	15512	12611
50°	4299	11289	4537
55°	2482	4671	2616
60°	1730	2051	1730
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15512 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1845.9	28.3
10°-20°	2972.9	45.5
20°-30°	1284.7	19.7
30°-40°	292.8	4.5
40°-50°	100.5	1.5
50°-60°	24.6	0.4
60°-70°	6.4	0.1
70°-80°	0.7	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°	6103.4	93.5
0°-40°	6396.2	98.0
0°-60°	6521.3	99.9
0°-90°	6528.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6528.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20992	20992	20992	20992	20992	
5°	20312	20292	20288	20330	20313	1847
15°	11130	10996	11070	11034	11014	2980
25°	2616	2715	2950	2646	2562	1252
35°	439	448	420	417	352	298
45°	115	143	143	143	116	82
55°	19	20	35	21	20	18
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°	20991.8	20991.8	20991.8	20991.8	20991.8
2.5°	20852.7	20838.3	20846.5	20856.8	20861.0
5°	20311.6	20292.0	20287.9	20330.2	20312.7
7.5°	19220.2	19192.4	19150.1	19246.0	19335.6
10°	17391.9	17360.9	17269.2	17314.6	17387.7
12.5°	14692.6	14592.7	14590.6	14734.9	14715.3
15°	11129.8	10995.8	11070.0	11033.9	11014.3
17.5°	7484.4	7432.9	7531.8	7501.9	7373.1
20°	5384.0	5397.4	5586.0	5491.2	5376.8
22.5°	3928.8	3977.2	4200.8	3956.6	3866.9
25°	2615.7	2714.7	2949.7	2645.6	2562.1
27.5°	1608.8	1654.2	1892.2	1588.2	1542.9
30°	1000.7	978.1	1090.4	935.8	871.9
32.5°	656.5	627.7	663.7	595.7	544.2
35°	439.0	448.3	420.5	417.4	352.5
37.5°	274.1	315.4	278.3	296.8	226.7
40°	177.3	228.8	196.9	217.5	167.0
42.5°	145.3	176.2	161.8	172.1	148.4
45°	115.4	143.3	143.3	143.3	116.5
47.5°	63.9	95.8	122.6	97.9	68.0
50°	36.1	48.4	94.8	50.5	38.1
52.5°	24.7	27.8	64.9	28.9	25.8
55°	18.6	19.6	35.0	20.6	19.6
57.5°	14.4	15.5	18.6	15.5	14.4
60°	11.3	11.3	13.4	12.4	11.3
62.5°	8.2	8.2	9.3	8.2	8.2
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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