

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: P755388

Luminaire Tested: LD4D90BD010-EU4DR3070959040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755388
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: LD4D90BD010-EU4DR3070959040-4LBSQW1B
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

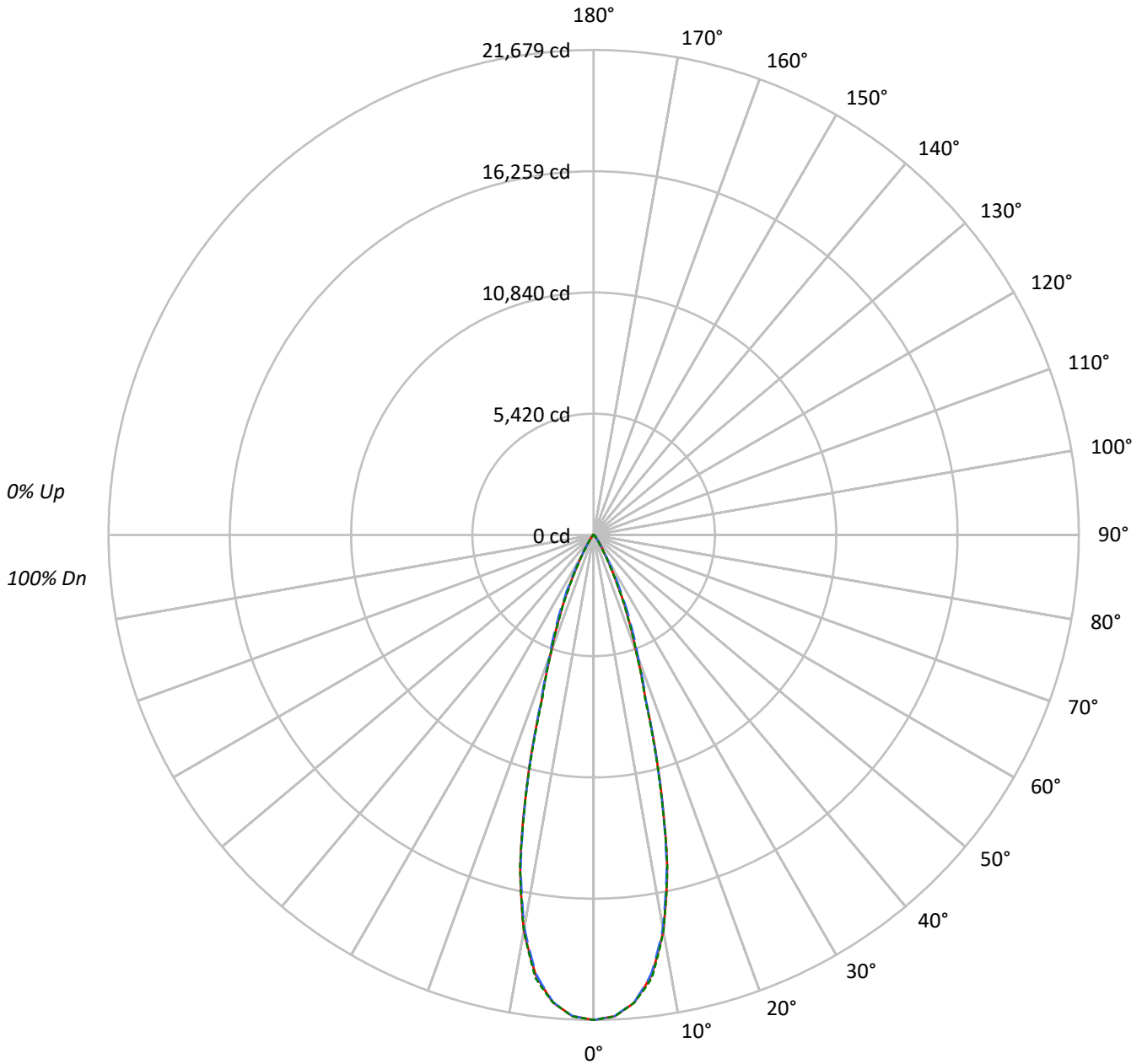
Lumens per Lamp: N/A
Luminaire Lumens: 6742.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

CIE Type: Direct
Input Watts (W): 98.9
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									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°	1659369	1659369	1659369
5°	1611730	1609848	1611815
10°	1396004	1386157	1395670
15°	910825	905928	901380
20°	452910	469902	452300
25°	228142	257271	223471
30°	91346	99530	79582
35°	42367	40582	34013
40°	18295	20314	17226
45°	12903	16010	13022
50°	4442	11658	4692
55°	2562	4831	2696
60°	1791	2113	1791
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1906.3	28.3
10°-20°	3070.1	45.5
20°-30°	1326.7	19.7
30°-40°	302.4	4.5
40°-50°	103.8	1.5
50°-60°	25.4	0.4
60°-70°	6.6	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°	6303.2	93.5
0°-40°	6605.5	98.0
0°-60°	6734.7	99.9
0°-90°	6742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21679	21679	21679	21679	21679	
5°	20976	20956	20952	20996	20977	1908
15°	11494	11356	11432	11395	11375	3078
25°	2701	2804	3046	2732	2646	1293
35°	453	463	434	431	364	308
45°	119	148	148	148	120	85
55°	19	20	36	21	20	19
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°	21678.8	21678.8	21678.8	21678.8	21678.8
2.5°	21535.1	21520.2	21528.7	21539.4	21543.6
5°	20976.3	20956.1	20951.8	20995.5	20977.4
7.5°	19849.2	19820.4	19776.8	19875.8	19968.4
10°	17961.0	17929.1	17834.3	17881.2	17956.7
12.5°	15173.5	15070.2	15068.1	15217.1	15196.9
15°	11494.0	11355.6	11432.2	11395.0	11374.8
17.5°	7729.4	7676.1	7778.3	7747.4	7614.4
20°	5560.2	5574.0	5768.8	5670.9	5552.7
22.5°	4057.3	4107.3	4338.3	4086.1	3993.5
25°	2701.3	2803.5	3046.2	2732.2	2646.0
27.5°	1661.5	1708.3	1954.2	1640.2	1593.3
30°	1033.5	1010.1	1126.1	966.4	900.4
32.5°	678.0	648.2	685.4	615.2	562.0
35°	453.4	463.0	434.3	431.1	364.0
37.5°	283.1	325.7	287.4	306.5	234.2
40°	183.1	236.3	203.3	224.6	172.4
42.5°	150.1	182.0	167.1	177.7	153.3
45°	119.2	147.9	147.9	147.9	120.3
47.5°	66.0	99.0	126.7	101.1	70.2
50°	37.3	50.0	97.9	52.2	39.4
52.5°	25.5	28.7	67.1	29.8	26.6
55°	19.2	20.2	36.2	21.3	20.2
57.5°	14.9	16.0	19.2	16.0	14.9
60°	11.7	11.7	13.8	12.8	11.7
62.5°	8.5	8.5	9.6	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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