

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: P755375

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755375
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-EU4DR3070959035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

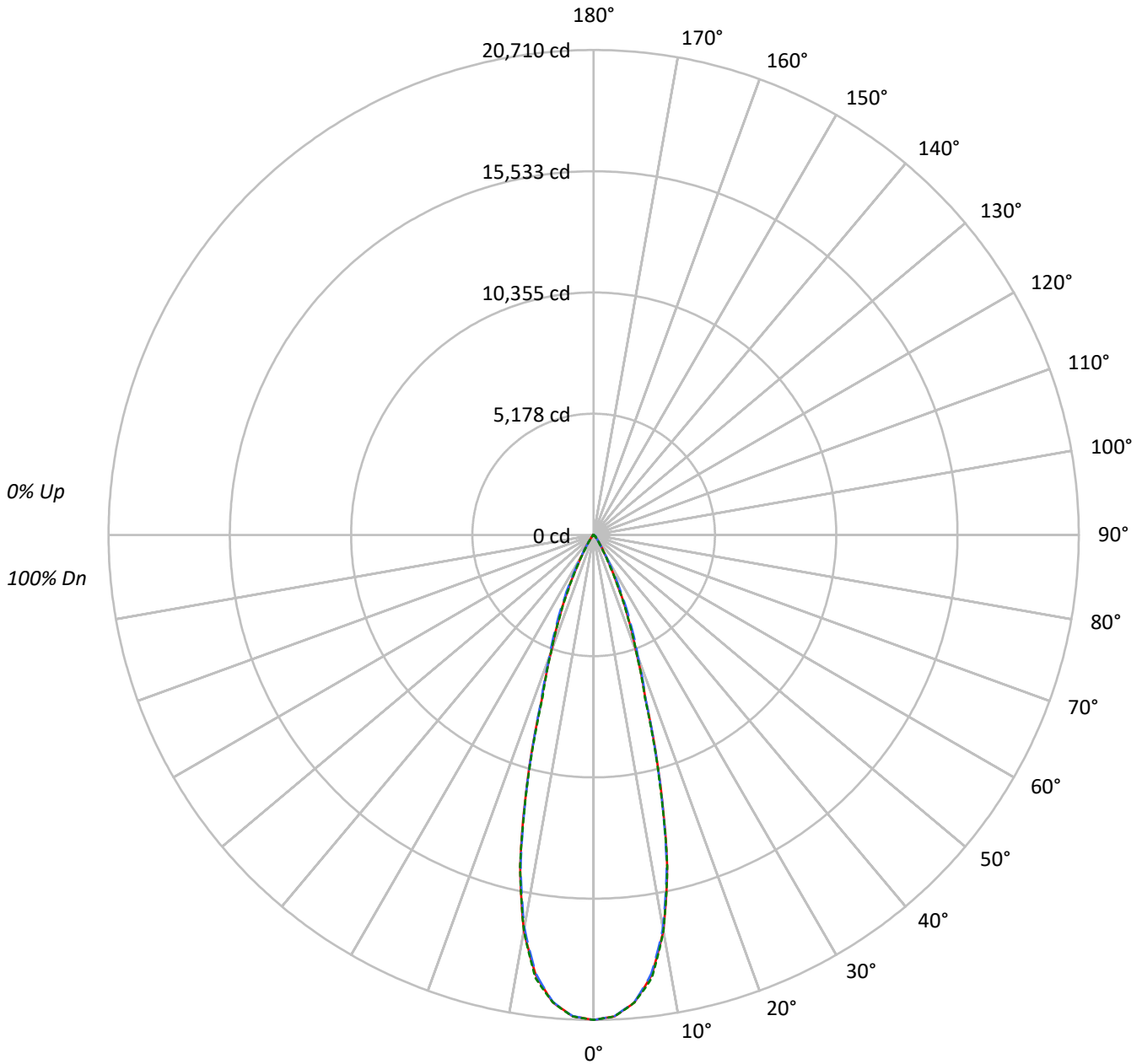
Lumens per Lamp: N/A
Luminaire Lumens: 6440.9 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

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	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°	1585252	1585252	1585252
5°	1539743	1537953	1539827
10°	1333654	1324249	1333335
15°	870142	865466	861116
20°	432685	448919	432098
25°	217956	245776	213489
30°	87262	95084	76029
35°	40479	38769	32499
40°	17476	19405	16457
45°	12330	15296	12438
50°	4239	11134	4477
55°	2442	4617	2576
60°	1715	2021	1715
65°	1105	1105	1105
70°	694	448	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: 15296 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1821.2	28.3
10°-20°	2933.0	45.5
20°-30°	1267.4	19.7
30°-40°	288.9	4.5
40°-50°	99.2	1.5
50°-60°	24.2	0.4
60°-70°	6.3	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°	6021.6	93.5
0°-40°	6310.5	98.0
0°-60°	6433.9	99.9
0°-90°	6440.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6440.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20710	20710	20710	20710	20710	
5°	20039	20020	20016	20058	20040	1823
15°	10981	10848	10922	10886	10867	2940
25°	2581	2678	2910	2610	2528	1235
35°	433	442	415	412	348	294
45°	114	141	141	141	115	81
55°	18	19	35	20	19	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°	20710.5	20710.5	20710.5	20710.5	20710.5
2.5°	20573.3	20559.0	20567.2	20577.3	20581.4
5°	20039.4	20020.1	20016.1	20057.7	20040.5
7.5°	18962.6	18935.2	18893.5	18988.1	19076.5
10°	17158.8	17128.3	17037.8	17082.5	17154.7
12.5°	14495.8	14397.1	14395.1	14537.4	14518.1
15°	10980.6	10848.4	10921.6	10886.1	10866.7
17.5°	7384.1	7333.3	7430.9	7401.4	7274.3
20°	5311.9	5325.1	5511.2	5417.6	5304.7
22.5°	3876.1	3923.9	4144.5	3903.6	3815.1
25°	2580.7	2678.3	2910.1	2610.2	2527.8
27.5°	1587.3	1632.0	1866.9	1566.9	1522.2
30°	987.3	965.0	1075.8	923.3	860.2
32.5°	647.7	619.2	654.8	587.7	536.9
35°	433.2	442.3	414.9	411.8	347.8
37.5°	270.5	311.1	274.5	292.8	223.7
40°	174.9	225.7	194.2	214.5	164.7
42.5°	143.4	173.9	159.6	169.8	146.4
45°	113.9	141.3	141.3	141.3	114.9
47.5°	63.0	94.6	121.0	96.6	67.1
50°	35.6	47.8	93.5	49.8	37.6
52.5°	24.4	27.5	64.1	28.5	25.4
55°	18.3	19.3	34.6	20.3	19.3
57.5°	14.2	15.3	18.3	15.3	14.2
60°	11.2	11.2	13.2	12.2	11.2
62.5°	8.1	8.1	9.2	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.0	2.0	2.0	3.1
72.5°	2.0	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

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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