

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: P753780

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753780
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: LD4D80BD010-EU4DR3070959027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6588.7 lumens
Efficiency: N/A
Efficacy: 83.5 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

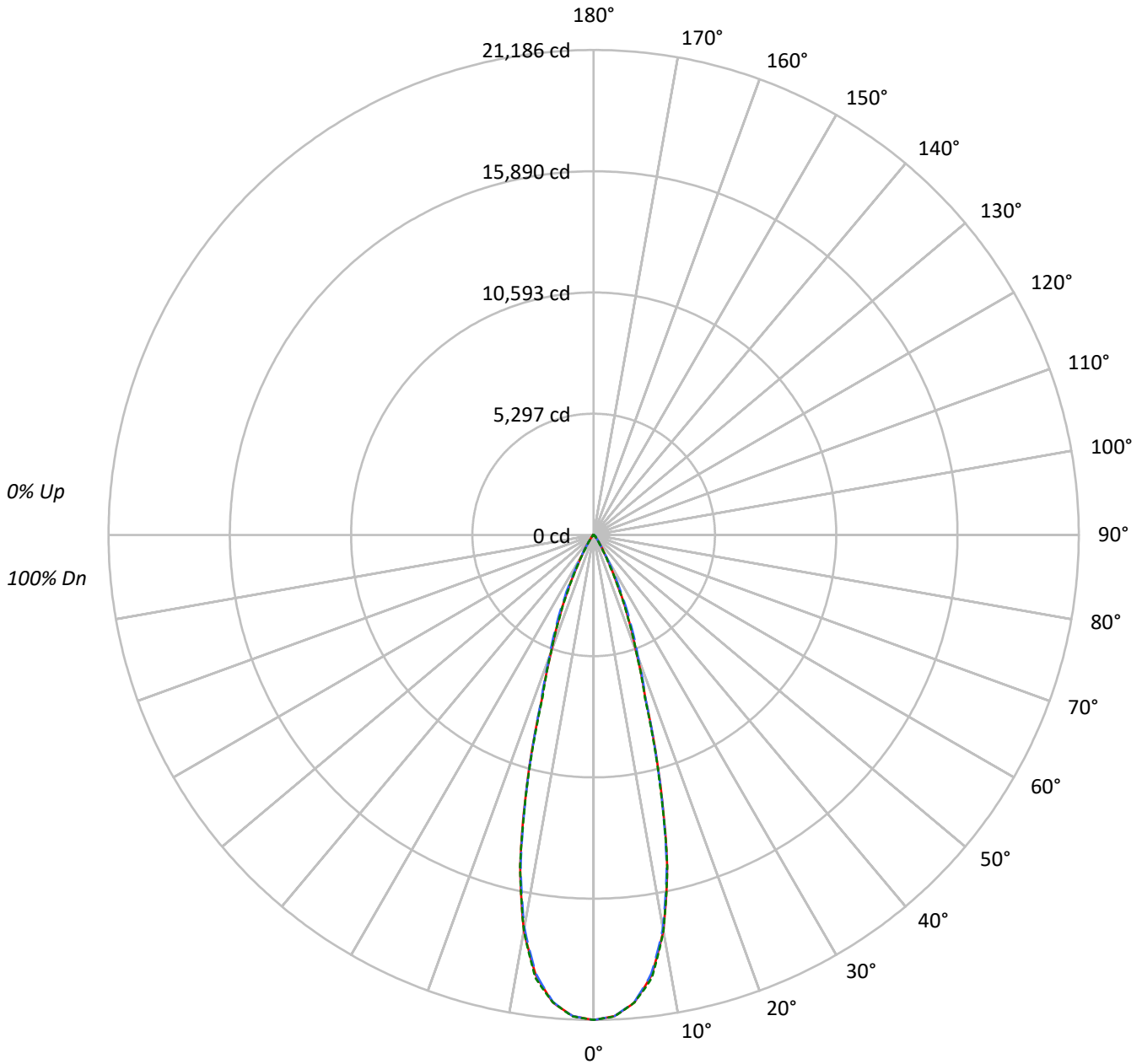
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1621625	1621625	1621625
5°	1575072	1573236	1575157
10°	1364254	1354632	1363928
15°	890111	885325	880879
20°	442606	459215	442020
25°	222956	251418	218387
30°	89269	97267	77779
35°	41404	39657	33237
40°	17876	19854	16837
45°	12611	15653	12719
50°	4335	11396	4585
55°	2496	4724	2642
60°	1745	2067	1745
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: 15653 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1863.0	28.3
10°-20°	3000.3	45.5
20°-30°	1296.5	19.7
30°-40°	295.5	4.5
40°-50°	101.5	1.5
50°-60°	24.8	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°	6159.8	93.5
0°-40°	6455.3	98.0
0°-60°	6581.6	99.9
0°-90°	6588.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6588.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21186	21186	21186	21186	21186	
5°	20499	20480	20475	20518	20500	1865
15°	11233	11097	11172	11136	11116	3008
25°	2640	2740	2977	2670	2586	1264
35°	443	452	424	421	356	301
45°	116	145	145	145	118	83
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°	21185.7	21185.7	21185.7	21185.7	21185.7
2.5°	21045.3	21030.7	21039.1	21049.5	21053.6
5°	20499.2	20479.5	20475.3	20518.0	20500.3
7.5°	19397.7	19369.6	19327.0	19423.7	19514.2
10°	17552.5	17521.3	17428.7	17474.5	17548.3
12.5°	14828.3	14727.5	14725.4	14871.0	14851.2
15°	11232.6	11097.3	11172.2	11135.8	11116.1
17.5°	7553.6	7501.5	7601.4	7571.2	7441.2
20°	5433.7	5447.3	5637.6	5541.9	5426.5
22.5°	3965.0	4013.9	4239.6	3993.1	3902.6
25°	2639.9	2739.7	2976.9	2670.1	2585.8
27.5°	1623.7	1669.4	1909.7	1602.9	1557.1
30°	1010.0	987.1	1100.5	944.5	880.0
32.5°	662.6	633.4	669.9	601.2	549.2
35°	443.1	452.5	424.4	421.3	355.7
37.5°	276.7	318.3	280.8	299.6	228.8
40°	178.9	230.9	198.7	219.5	168.5
42.5°	146.7	177.9	163.3	173.7	149.8
45°	116.5	144.6	144.6	144.6	117.5
47.5°	64.5	96.7	123.8	98.8	68.6
50°	36.4	48.9	95.7	51.0	38.5
52.5°	25.0	28.1	65.5	29.1	26.0
55°	18.7	19.8	35.4	20.8	19.8
57.5°	14.6	15.6	18.7	15.6	14.6
60°	11.4	11.4	13.5	12.5	11.4
62.5°	8.3	8.3	9.4	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.2	4.2	4.2	4.2
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

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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