

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: P753785

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753785
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-EU4DR3070959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7119.6 lumens
Efficiency: N/A
Efficacy: 90.2 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

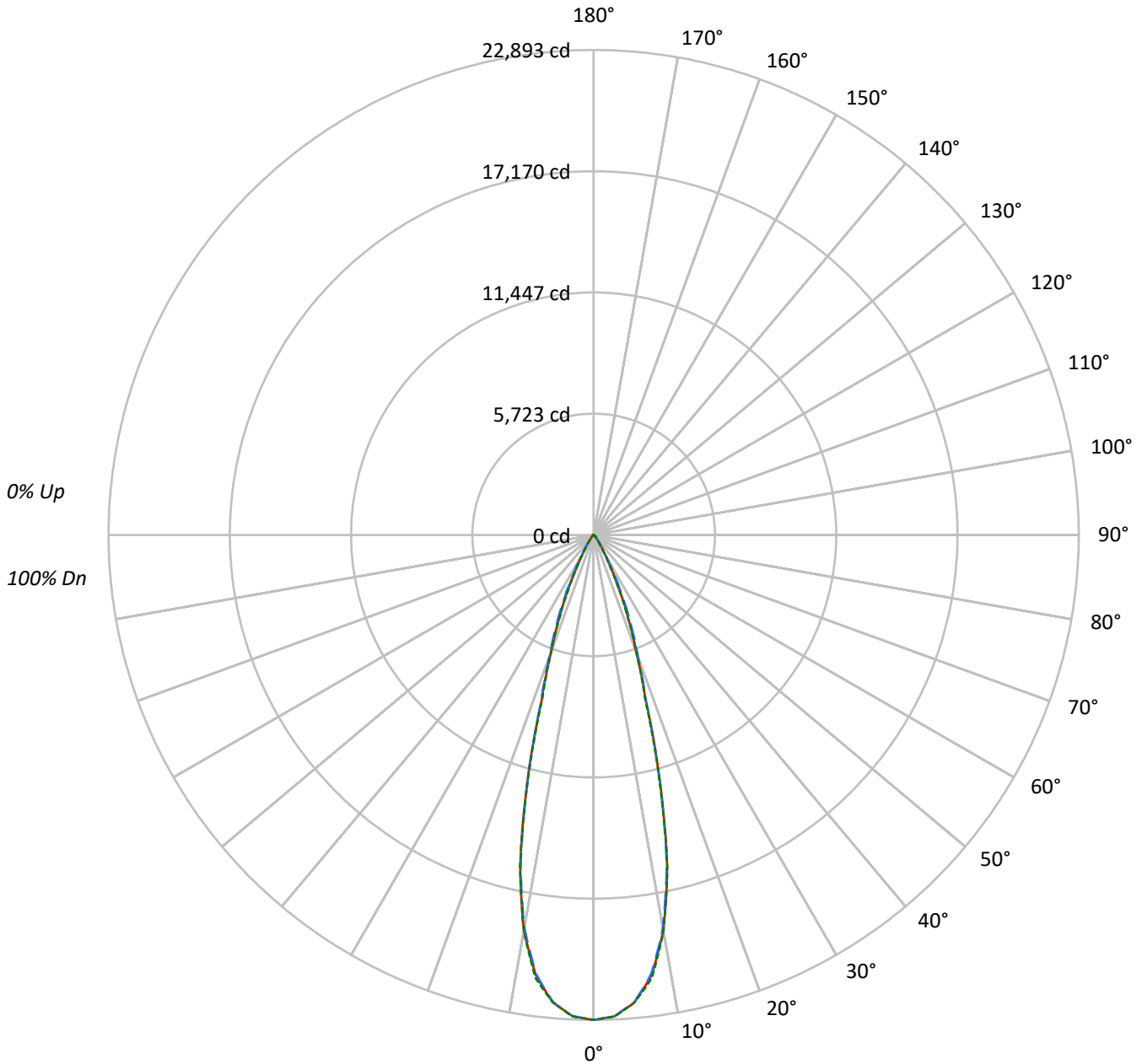
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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°	1752300	1752300	1752300
5°	1701989	1700007	1702082
10°	1474187	1463788	1473837
15°	961834	956668	951858
20°	478276	496220	477632
25°	240920	271679	235988
30°	96463	105107	84045
35°	44740	42853	35919
40°	19315	21453	18195
45°	13629	16908	13748
50°	4680	12313	4954
55°	2696	5098	2856
60°	1898	2235	1898
65°	1213	1213	1213
70°	761	492	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16908 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2013.1	28.3
10°-20°	3242.1	45.5
20°-30°	1401.0	19.7
30°-40°	319.3	4.5
40°-50°	109.6	1.5
50°-60°	26.8	0.4
60°-70°	6.9	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°	6656.2	93.5
0°-40°	6975.5	98.0
0°-60°	7111.9	99.9
0°-90°	7119.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7119.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22893	22893	22893	22893	22893	
5°	22151	22130	22125	22171	22152	2015
15°	12138	11992	12072	12033	12012	3250
25°	2853	2960	3217	2885	2794	1365
35°	479	489	459	455	384	325
45°	126	156	156	156	127	89
55°	20	21	38	22	21	20
65°	7	7	7	7	7	7
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°	22892.9	22892.9	22892.9	22892.9	22892.9
2.5°	22741.1	22725.4	22734.4	22745.6	22750.1
5°	22151.0	22129.7	22125.2	22171.3	22152.2
7.5°	20960.8	20930.4	20884.3	20988.9	21086.7
10°	18966.9	18933.1	18833.1	18882.6	18962.4
12.5°	16023.2	15914.2	15911.9	16069.3	16047.9
15°	12137.7	11991.6	12072.5	12033.1	12011.8
17.5°	8162.2	8106.0	8213.9	8181.3	8040.8
20°	5871.6	5886.2	6091.9	5988.5	5863.7
22.5°	4284.5	4337.4	4581.3	4314.9	4217.1
25°	2852.6	2960.5	3216.8	2885.2	2794.2
27.5°	1754.5	1804.0	2063.6	1732.0	1682.6
30°	1091.4	1066.6	1189.2	1020.6	950.9
32.5°	716.0	684.5	723.8	649.7	593.5
35°	478.8	488.9	458.6	455.2	384.4
37.5°	299.0	343.9	303.5	323.7	247.3
40°	193.3	249.5	214.7	237.2	182.1
42.5°	158.5	192.2	176.5	187.7	161.9
45°	125.9	156.2	156.2	156.2	127.0
47.5°	69.7	104.5	133.8	106.8	74.2
50°	39.3	52.8	103.4	55.1	41.6
52.5°	27.0	30.3	70.8	31.5	28.1
55°	20.2	21.4	38.2	22.5	21.4
57.5°	15.7	16.9	20.2	16.9	15.7
60°	12.4	12.4	14.6	13.5	12.4
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.2	2.2	2.2	3.4
72.5°	2.2	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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