

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: P753810

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753810
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-EU4DR3070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6699.5 lumens
Efficiency: N/A
Efficacy: 84.9 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

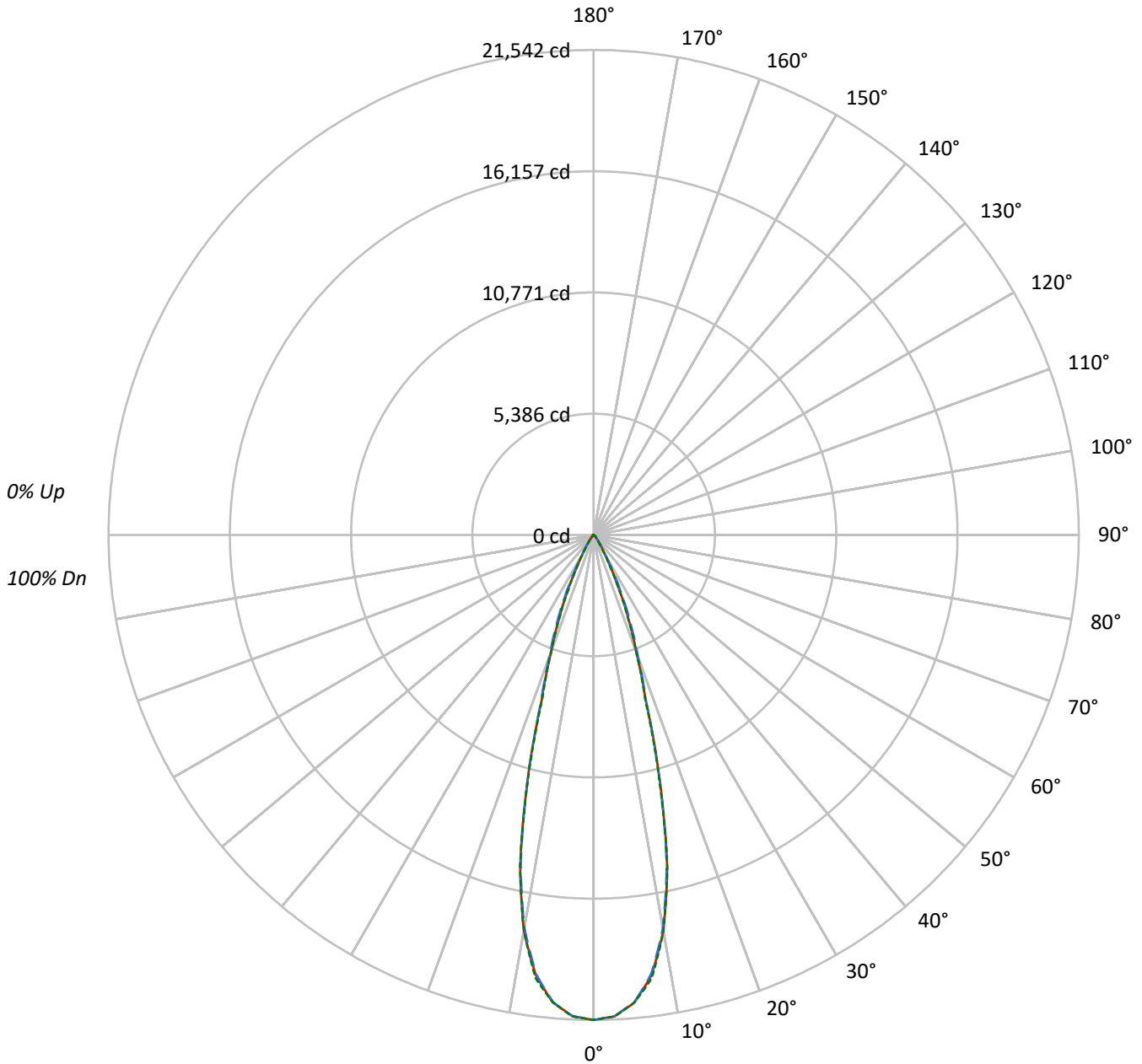
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1648905	1648905	1648905
5°	1601573	1599706	1601650
10°	1387206	1377421	1386872
15°	905080	900223	895698
20°	450051	466937	449449
25°	226706	255649	222061
30°	90771	98902	79087
35°	42105	40320	33798
40°	18176	20184	17116
45°	12827	15913	12936
50°	4406	11587	4656
55°	2536	4804	2682
60°	1776	2097	1776
65°	1141	1141	1141
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: 15913 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1894.3	28.3
10°-20°	3050.8	45.5
20°-30°	1318.3	19.7
30°-40°	300.5	4.5
40°-50°	103.2	1.5
50°-60°	25.2	0.4
60°-70°	6.5	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°	6263.4	93.5
0°-40°	6563.9	98.0
0°-60°	6692.3	99.9
0°-90°	6699.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6699.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21542	21542	21542	21542	21542	
5°	20844	20824	20820	20863	20845	1896
15°	11422	11284	11360	11323	11303	3058
25°	2684	2786	3027	2715	2629	1285
35°	451	460	432	428	362	306
45°	118	147	147	147	120	84
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°	21542.1	21542.1	21542.1	21542.1	21542.1
2.5°	21399.3	21384.5	21393.0	21403.6	21407.8
5°	20844.1	20824.0	20819.8	20863.1	20845.1
7.5°	19724.0	19695.5	19652.1	19750.5	19842.5
10°	17847.8	17816.0	17721.9	17768.4	17843.5
12.5°	15077.8	14975.2	14973.1	15121.2	15101.1
15°	11421.5	11284.0	11360.2	11323.2	11303.1
17.5°	7680.6	7627.7	7729.3	7698.6	7566.4
20°	5525.1	5538.9	5732.4	5635.1	5517.7
22.5°	4031.7	4081.5	4311.0	4060.3	3968.3
25°	2684.3	2785.8	3027.0	2715.0	2629.3
27.5°	1651.0	1697.5	1941.8	1629.8	1583.3
30°	1027.0	1003.7	1119.0	960.3	894.8
32.5°	673.7	644.1	681.1	611.3	558.4
35°	450.6	460.1	431.5	428.3	361.7
37.5°	281.3	323.6	285.6	304.6	232.7
40°	181.9	234.8	202.0	223.2	171.3
42.5°	149.1	180.9	166.1	176.6	152.3
45°	118.5	147.0	147.0	147.0	119.5
47.5°	65.6	98.4	125.9	100.5	69.8
50°	37.0	49.7	97.3	51.8	39.1
52.5°	25.4	28.6	66.6	29.6	26.4
55°	19.0	20.1	36.0	21.2	20.1
57.5°	14.8	15.9	19.0	15.9	14.8
60°	11.6	11.6	13.7	12.7	11.6
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
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

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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