

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: P753814

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753814
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-EU4DR3070959035-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 7514.5 lumens
Efficiency: N/A
Efficacy: 95.2 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

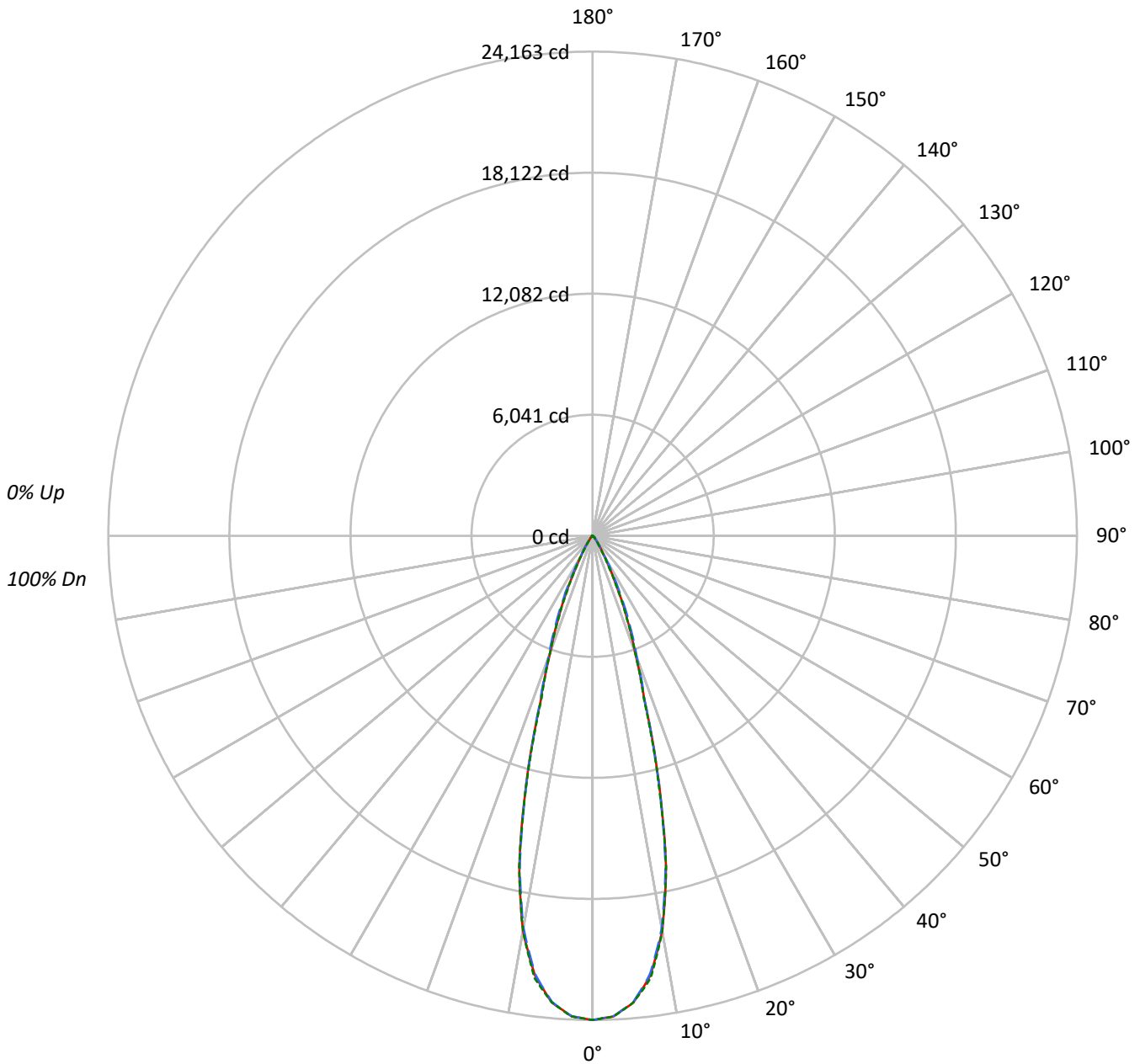


Downlight

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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	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°	1849510	1849510	1849510
5°	1796413	1794315	1796505
10°	1555969	1544994	1555595
15°	1015189	1009737	1004658
20°	504806	523744	504130
25°	254289	286746	249078
30°	101810	110932	88703
35°	47226	45226	37910
40°	20384	22642	19205
45°	14386	17850	14516
50°	4942	12992	5228
55°	2856	5378	3003
60°	1990	2358	1990
65°	1286	1286	1286
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17850 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2124.8	28.3
10°-20°	3421.9	45.5
20°-30°	1478.7	19.7
30°-40°	337.0	4.5
40°-50°	115.7	1.5
50°-60°	28.3	0.4
60°-70°	7.3	0.1
70°-80°	0.8	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°	7025.4	93.5
0°-40°	7362.4	98.0
0°-60°	7506.4	99.9
0°-90°	7514.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7514.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24163	24163	24163	24163	24163	
5°	23380	23357	23353	23401	23381	2127
15°	12811	12657	12742	12701	12678	3430
25°	3011	3125	3395	3045	2949	1441
35°	505	516	484	480	406	343
45°	133	165	165	165	134	94
55°	21	22	40	24	22	21
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°	24162.9	24162.9	24162.9	24162.9	24162.9
2.5°	24002.7	23986.1	23995.6	24007.5	24012.2
5°	23379.9	23357.4	23352.6	23401.2	23381.1
7.5°	22123.6	22091.6	22042.9	22153.2	22256.5
10°	20019.1	19983.5	19877.9	19930.1	20014.3
12.5°	16912.1	16797.0	16794.7	16960.7	16938.2
15°	12811.0	12656.8	12742.2	12700.7	12678.1
17.5°	8615.0	8555.7	8669.6	8635.2	8486.9
20°	6197.3	6212.7	6429.8	6320.7	6189.0
22.5°	4522.2	4578.0	4835.4	4554.3	4451.1
25°	3010.9	3124.8	3395.2	3045.3	2949.2
27.5°	1851.8	1904.0	2178.1	1828.1	1775.9
30°	1151.9	1125.8	1255.1	1077.2	1003.6
32.5°	755.7	722.5	764.0	685.7	626.4
35°	505.4	516.0	484.0	480.5	405.7
37.5°	315.6	363.0	320.3	341.7	261.0
40°	204.0	263.4	226.6	250.3	192.2
42.5°	167.3	202.9	186.3	198.1	170.8
45°	132.9	164.9	164.9	164.9	134.1
47.5°	73.6	110.3	141.2	112.7	78.3
50°	41.5	55.8	109.1	58.1	43.9
52.5°	28.5	32.0	74.7	33.2	29.7
55°	21.4	22.5	40.3	23.7	22.5
57.5°	16.6	17.8	21.4	17.8	16.6
60°	13.0	13.0	15.4	14.2	13.0
62.5°	9.5	9.5	10.7	9.5	9.5
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.6	4.7	4.7	4.7	4.7
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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