

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: P753796

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753796
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-EU4DR3070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7803.5 lumens
Efficiency: N/A
Efficacy: 98.9 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

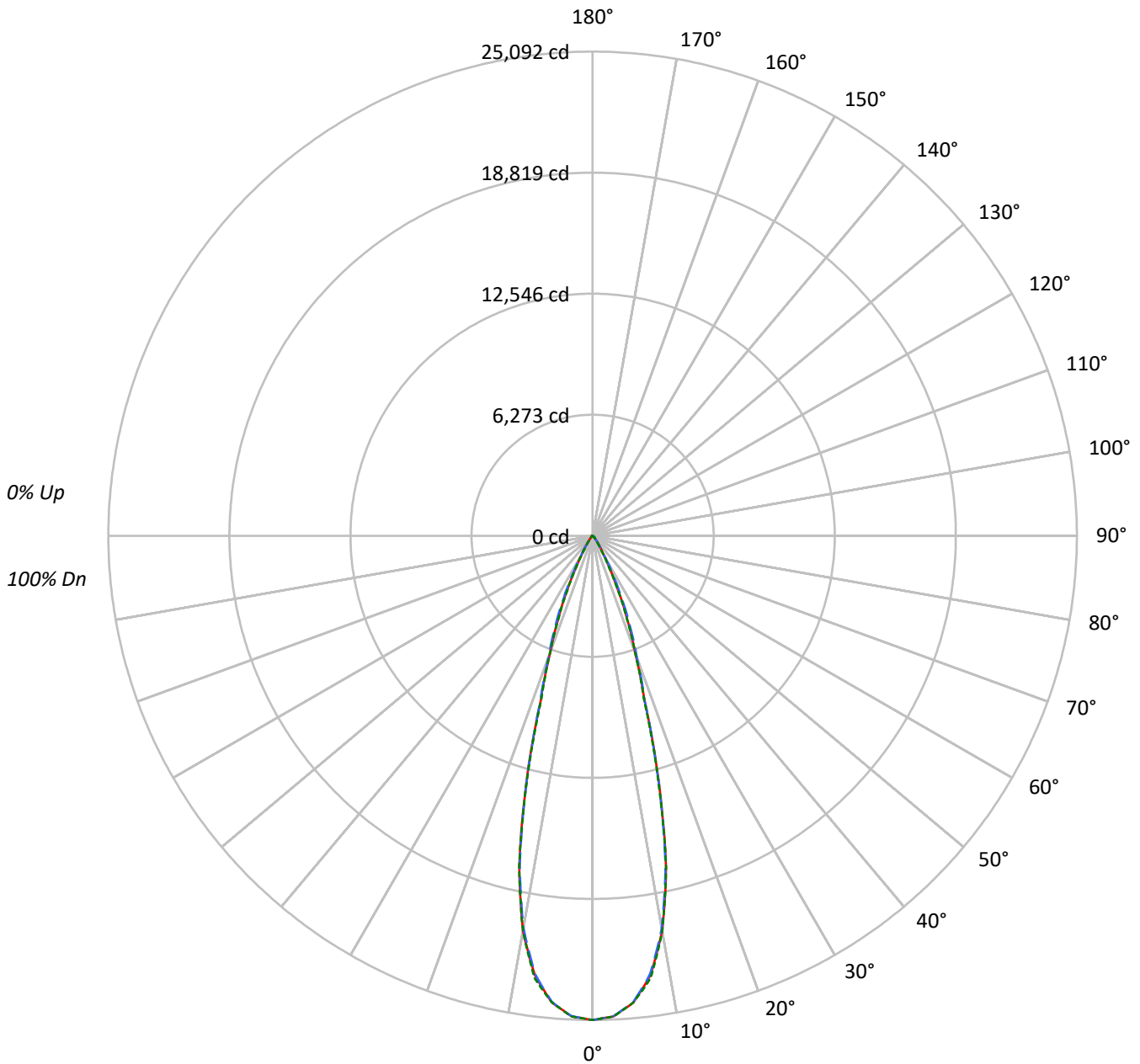


Downlight

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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°	1920627	1920627	1920627
5°	1865488	1863314	1865580
10°	1615793	1604399	1615412
15°	1054225	1048567	1043297
20°	524217	543888	523516
25°	264061	297776	258656
30°	105726	115201	92115
35°	49038	46964	39367
40°	21173	23511	19944
45°	14938	18532	15068
50°	5132	13492	5430
55°	2963	5592	3123
60°	2082	2449	2082
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18532 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2206.5	28.3
10°-20°	3553.5	45.5
20°-30°	1535.6	19.7
30°-40°	350.0	4.5
40°-50°	120.2	1.5
50°-60°	29.4	0.4
60°-70°	7.6	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°	7295.6	93.5
0°-40°	7645.5	98.0
0°-60°	7795.1	99.9
0°-90°	7803.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7803.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25092	25092	25092	25092	25092	
5°	24279	24256	24251	24301	24280	2208
15°	13304	13144	13232	13189	13166	3562
25°	3127	3245	3526	3162	3063	1497
35°	525	536	503	499	421	356
45°	138	171	171	171	139	98
55°	22	23	42	25	23	22
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°	25092.0	25092.0	25092.0	25092.0	25092.0
2.5°	24925.7	24908.4	24918.3	24930.6	24935.5
5°	24278.9	24255.5	24250.6	24301.1	24280.1
7.5°	22974.3	22941.0	22890.5	23005.1	23112.3
10°	20788.8	20751.9	20642.2	20696.5	20783.9
12.5°	17562.4	17442.9	17440.5	17612.9	17589.5
15°	13303.6	13143.5	13232.2	13189.1	13165.7
17.5°	8946.3	8884.7	9003.0	8967.2	8813.2
20°	6435.6	6451.6	6677.1	6563.7	6427.0
22.5°	4696.1	4754.0	5021.4	4729.4	4622.2
25°	3126.6	3244.9	3525.8	3162.4	3062.6
27.5°	1923.0	1977.3	2261.8	1898.4	1844.2
30°	1196.2	1169.1	1303.4	1118.6	1042.2
32.5°	784.7	750.2	793.4	712.1	650.5
35°	524.8	535.9	502.6	498.9	421.3
37.5°	327.7	377.0	332.6	354.8	271.0
40°	211.9	273.5	235.3	259.9	199.6
42.5°	173.7	210.7	193.4	205.7	177.4
45°	138.0	171.2	171.2	171.2	139.2
47.5°	76.4	114.6	146.6	117.0	81.3
50°	43.1	57.9	113.3	60.4	45.6
52.5°	29.6	33.3	77.6	34.5	30.8
55°	22.2	23.4	41.9	24.6	23.4
57.5°	17.2	18.5	22.2	18.5	17.2
60°	13.6	13.6	16.0	14.8	13.6
62.5°	9.9	9.9	11.1	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	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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