

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: P753808

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753808
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-EU4DR3070959035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7510.2 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

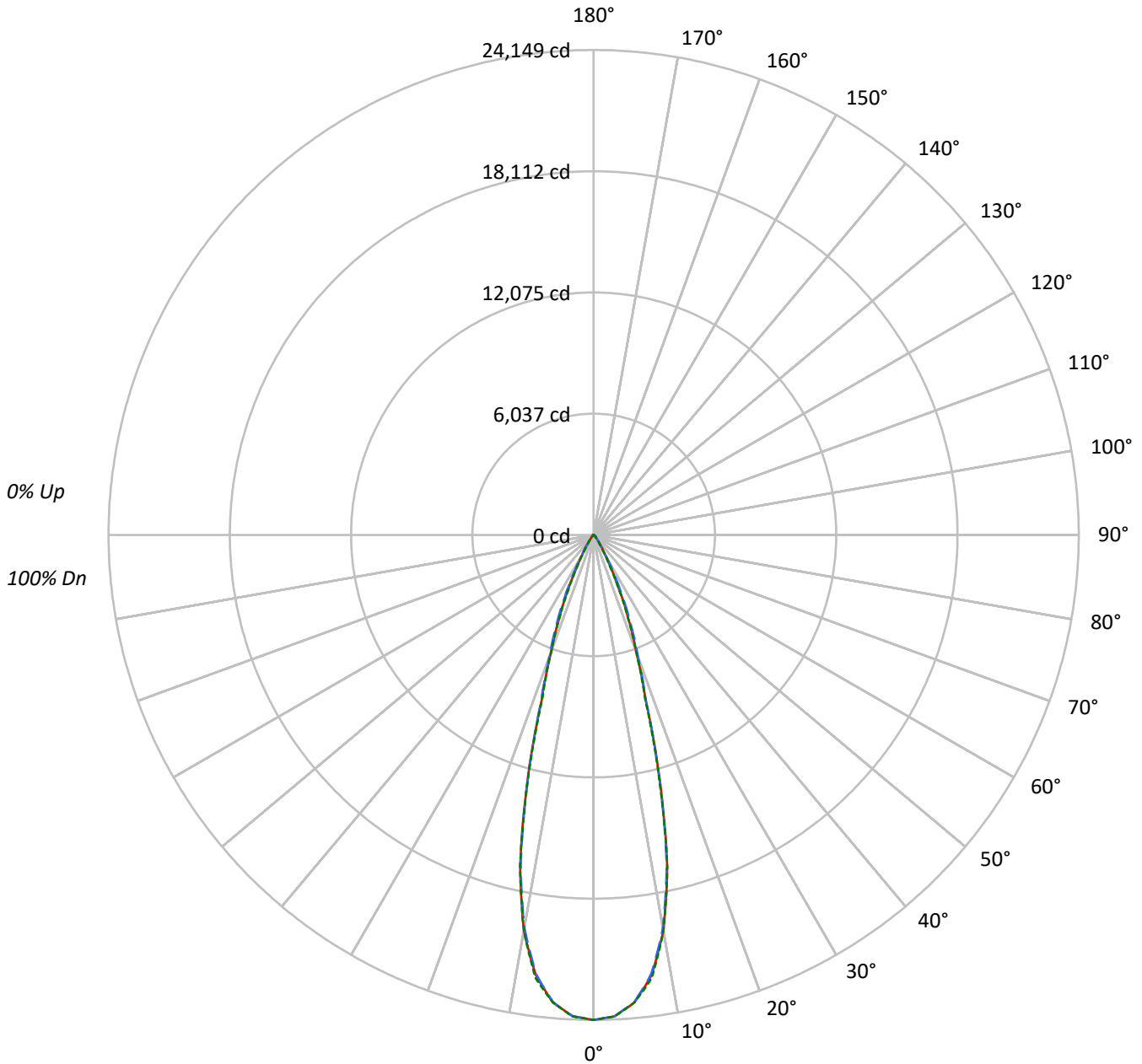
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1848431	1848431	1848431
5°	1795368	1793278	1795460
10°	1555059	1544100	1554694
15°	1014603	1009151	1004079
20°	504513	523443	503837
25°	254137	286586	248935
30°	101748	110870	88650
35°	47198	45198	37891
40°	20374	22632	19195
45°	14375	17839	14505
50°	4942	12992	5228
55°	2842	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: 17839 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2123.5	28.3
10°-20°	3420.0	45.5
20°-30°	1477.9	19.7
30°-40°	336.8	4.5
40°-50°	115.7	1.5
50°-60°	28.2	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°	7021.3	93.5
0°-40°	7358.2	98.0
0°-60°	7502.1	99.9
0°-90°	7510.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7510.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24149	24149	24149	24149	24149	
5°	23366	23344	23339	23388	23368	2125
15°	12804	12650	12735	12693	12671	3428
25°	3009	3123	3393	3044	2948	1440
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°	24148.8	24148.8	24148.8	24148.8	24148.8
2.5°	23988.8	23972.2	23981.7	23993.5	23998.3
5°	23366.3	23343.8	23339.1	23387.7	23367.5
7.5°	22110.8	22078.7	22030.1	22140.4	22243.5
10°	20007.4	19971.9	19866.4	19918.5	20002.7
12.5°	16902.3	16787.3	16784.9	16950.9	16928.4
15°	12803.6	12649.5	12734.8	12693.3	12670.8
17.5°	8610.0	8550.7	8664.6	8630.2	8482.0
20°	6193.7	6209.1	6426.1	6317.0	6185.4
22.5°	4519.6	4575.3	4832.6	4551.6	4448.5
25°	3009.1	3122.9	3393.3	3043.5	2947.5
27.5°	1850.8	1902.9	2176.8	1827.1	1774.9
30°	1151.2	1125.2	1254.4	1076.5	1003.0
32.5°	755.2	722.0	763.5	685.3	626.0
35°	505.1	515.7	483.7	480.2	405.5
37.5°	315.4	362.8	320.1	341.5	260.8
40°	203.9	263.2	226.5	250.2	192.1
42.5°	167.2	202.7	186.1	198.0	170.7
45°	132.8	164.8	164.8	164.8	134.0
47.5°	73.5	110.3	141.1	112.6	78.3
50°	41.5	55.7	109.1	58.1	43.9
52.5°	28.5	32.0	74.7	33.2	29.6
55°	21.3	22.5	40.3	23.7	22.5
57.5°	16.6	17.8	21.3	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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