

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: P753781

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753781
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-EU4DR3070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 5807.8 lumens
Efficiency: N/A
Efficacy: 73.6 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

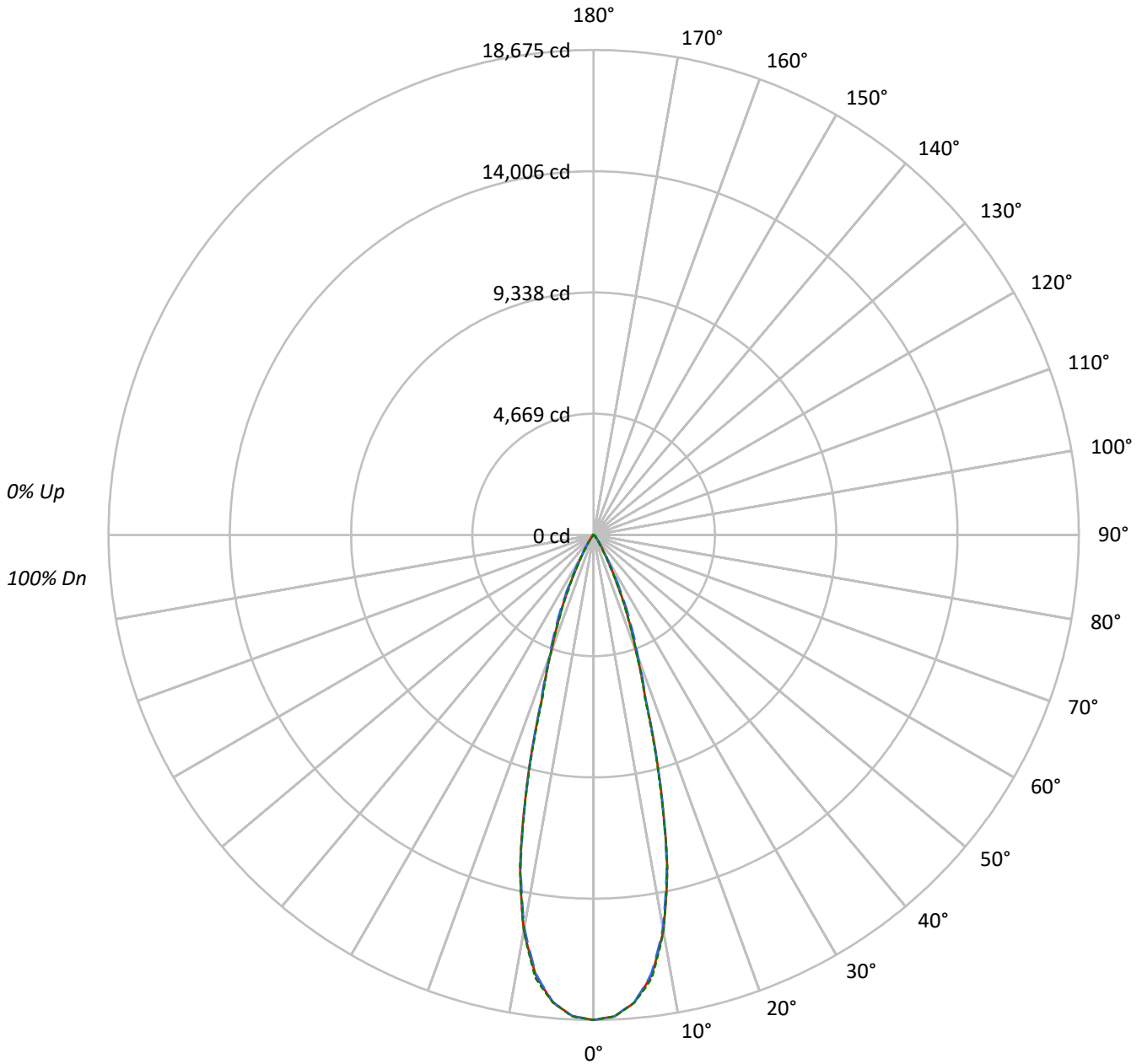
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1429456	1429456	1429456
5°	1388415	1386794	1388484
10°	1202580	1194100	1202292
15°	784622	780406	776484
20°	390157	404795	389636
25°	196530	221622	192510
30°	78689	85742	68560
35°	36499	34957	29303
40°	15757	17496	14838
45°	11117	13791	11215
50°	3822	10050	4037
55°	2202	4164	2322
60°	1546	1822	1546
65°	996	996	996
70°	627	403	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13791 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1642.2	28.3
10°-20°	2644.8	45.5
20°-30°	1142.9	19.7
30°-40°	260.5	4.5
40°-50°	89.4	1.5
50°-60°	21.9	0.4
60°-70°	5.7	0.1
70°-80°	0.6	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°	5429.8	93.5
0°-40°	5690.3	98.0
0°-60°	5801.6	99.9
0°-90°	5807.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5807.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18675	18675	18675	18675	18675	
5°	18070	18052	18049	18086	18071	1644
15°	9901	9782	9848	9816	9799	2651
25°	2327	2415	2624	2354	2279	1114
35°	391	399	374	371	314	265
45°	103	127	127	127	104	73
55°	16	17	31	18	17	16
65°	6	6	6	6	6	5
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°	18675.1	18675.1	18675.1	18675.1	18675.1
2.5°	18551.3	18538.4	18545.8	18554.9	18558.6
5°	18069.9	18052.5	18048.8	18086.4	18070.8
7.5°	17098.9	17074.2	17036.6	17121.9	17201.6
10°	15472.4	15444.9	15363.3	15403.6	15468.7
12.5°	13071.1	12982.1	12980.3	13108.7	13091.2
15°	9901.4	9782.2	9848.2	9816.1	9798.7
17.5°	6658.4	6612.6	6700.6	6674.0	6559.4
20°	4789.8	4801.7	4969.5	4885.1	4783.4
22.5°	3495.2	3538.2	3737.2	3519.9	3440.1
25°	2327.0	2415.1	2624.1	2353.6	2279.4
27.5°	1431.3	1471.6	1683.4	1412.9	1372.6
30°	890.3	870.1	970.1	832.5	775.7
32.5°	584.1	558.4	590.5	530.0	484.1
35°	390.6	398.8	374.1	371.3	313.6
37.5°	243.9	280.6	247.6	264.1	201.7
40°	157.7	203.5	175.1	193.5	148.5
42.5°	129.3	156.8	144.0	153.1	132.0
45°	102.7	127.4	127.4	127.4	103.6
47.5°	56.8	85.3	109.1	87.1	60.5
50°	32.1	43.1	84.4	44.9	33.9
52.5°	22.0	24.8	57.8	25.7	22.9
55°	16.5	17.4	31.2	18.3	17.4
57.5°	12.8	13.8	16.5	13.8	12.8
60°	10.1	10.1	11.9	11.0	10.1
62.5°	7.3	7.3	8.3	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.8	1.8	1.8	2.8
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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