

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P754565

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754565
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: LD4D85BD010-EU4DR3070959027-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 7579.3 lumens
Efficiency: N/A
Efficacy: 86.4 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

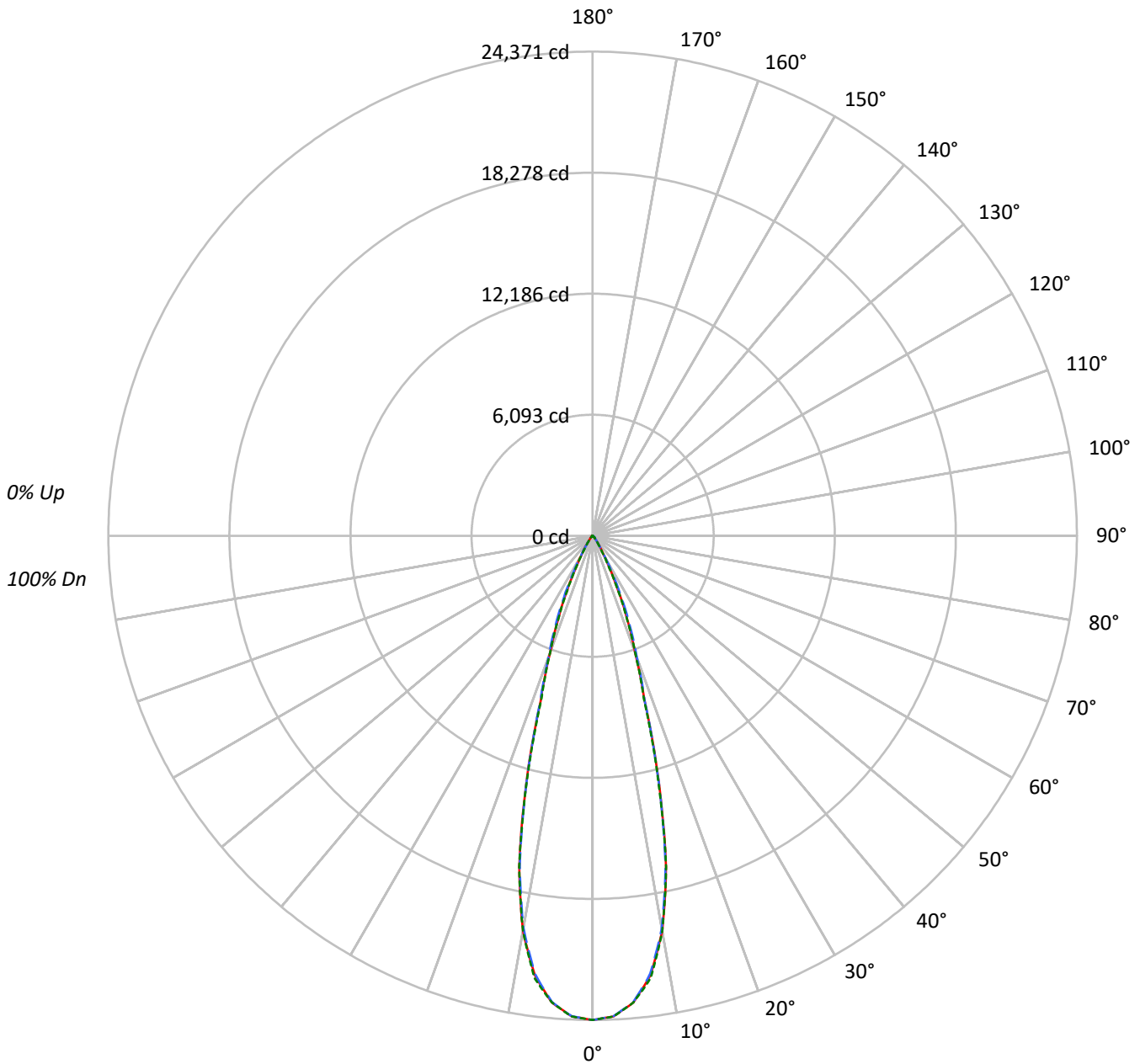
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1865447	1865447	1865447
5°	1811895	1809782	1811987
10°	1569376	1558308	1569003
15°	1023938	1018438	1013319
20°	509156	528257	508471
25°	256477	289221	251224
30°	102685	111886	89472
35°	47628	45618	38237
40°	20564	22832	19365
45°	14505	18002	14635
50°	4989	13111	5275
55°	2869	5431	3029
60°	2021	2388	2021
65°	1304	1304	1304
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: 18002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2143.1	28.3
10°-20°	3451.4	45.5
20°-30°	1491.5	19.7
30°-40°	339.9	4.5
40°-50°	116.7	1.5
50°-60°	28.5	0.4
60°-70°	7.4	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°	7086.0	93.5
0°-40°	7425.9	98.0
0°-60°	7571.1	99.9
0°-90°	7579.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7579.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24371	24371	24371	24371	24371	
5°	23581	23559	23554	23603	23583	2145
15°	12921	12766	12852	12810	12787	3460
25°	3037	3152	3424	3072	2975	1454
35°	510	520	488	485	409	346
45°	134	166	166	166	135	95
55°	22	23	41	24	23	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°	24371.1	24371.1	24371.1	24371.1	24371.1
2.5°	24209.6	24192.8	24202.4	24214.4	24219.1
5°	23581.4	23558.7	23553.9	23602.9	23582.6
7.5°	22314.3	22281.9	22232.9	22344.2	22448.3
10°	20191.6	20155.7	20049.2	20101.9	20186.8
12.5°	17057.9	16941.8	16939.4	17106.9	17084.2
15°	12921.4	12765.9	12852.0	12810.1	12787.4
17.5°	8689.3	8629.4	8744.3	8709.6	8560.0
20°	6250.7	6266.3	6485.2	6375.2	6242.3
22.5°	4561.2	4617.4	4877.1	4593.5	4489.4
25°	3036.8	3151.7	3424.5	3071.5	2974.6
27.5°	1867.8	1920.4	2196.8	1843.9	1791.2
30°	1161.8	1135.5	1265.9	1086.5	1012.3
32.5°	762.2	728.7	770.6	691.6	631.8
35°	509.7	520.5	488.2	484.6	409.2
37.5°	318.3	366.1	323.1	344.6	263.2
40°	205.8	265.6	228.5	252.5	193.8
42.5°	168.7	204.6	187.9	199.8	172.3
45°	134.0	166.3	166.3	166.3	135.2
47.5°	74.2	111.3	142.4	113.7	79.0
50°	41.9	56.2	110.1	58.6	44.3
52.5°	28.7	32.3	75.4	33.5	29.9
55°	21.5	22.7	40.7	23.9	22.7
57.5°	16.8	17.9	21.5	17.9	16.8
60°	13.2	13.2	15.6	14.4	13.2
62.5°	9.6	9.6	10.8	9.6	9.6
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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