

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: P752805

Luminaire Tested: LD4D70BD010-EU4DR6570959040-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959040-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6431.5 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

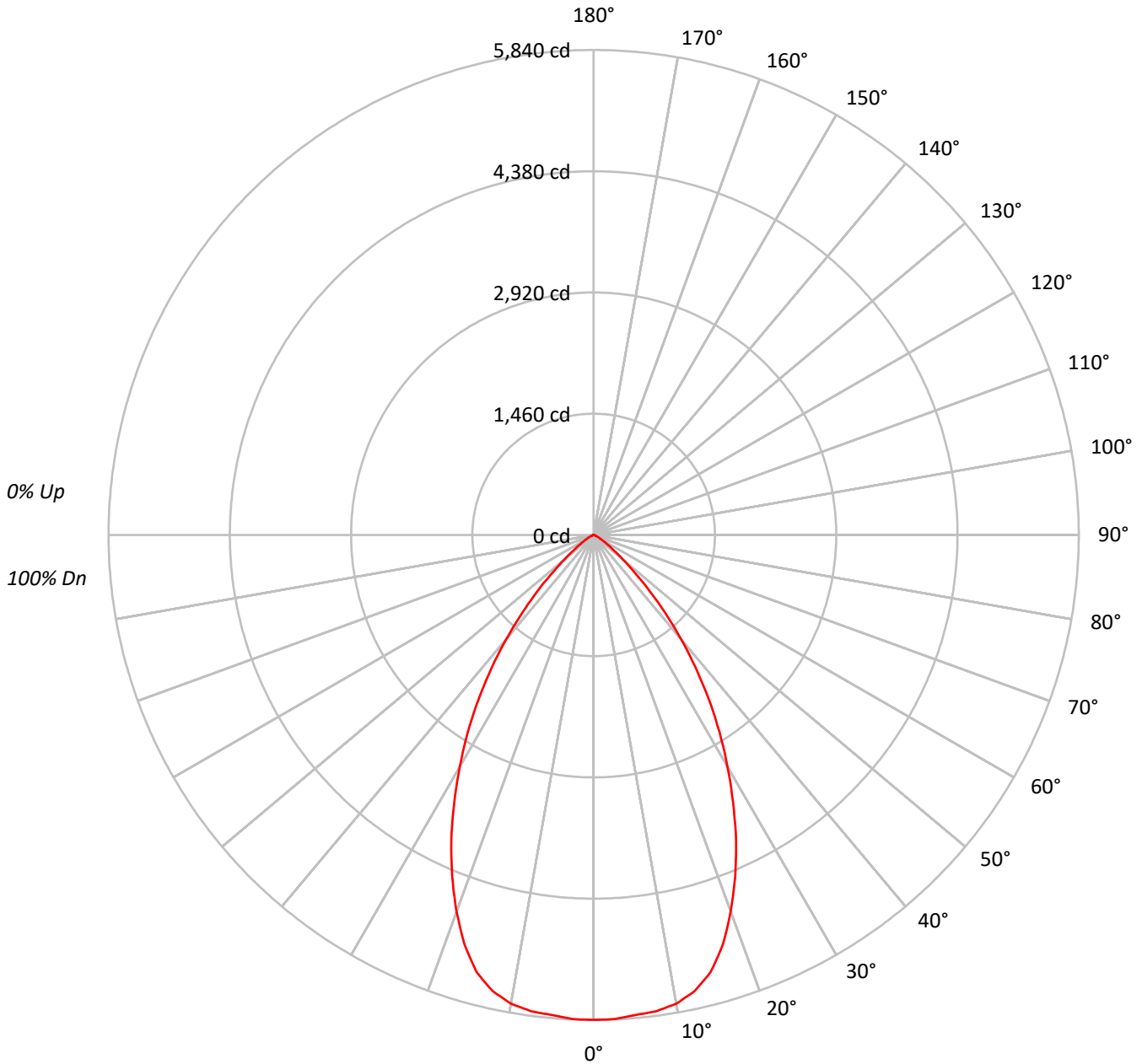
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P752805

CATALOG NUMBER: LD4D70BD010-EU4DR6570959040-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P752805

CATALOG NUMBER: LD4D70BD010-EU4DR6570959040-4LBCSSQMW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93		
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85		
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78		
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61		
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52		
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49		
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	341055
5°	340195
10°	339906
15°	329427
20°	299903
25°	261343
30°	217363
35°	172227
40°	124303
45°	78532
50°	40933
55°	21760
60°	11424
65°	6288
70°	2630
75°	2911
80°	2018
85°	1742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 78532 cd/sqm



TEST NUMBER: P752805

CATALOG NUMBER: LD4D70BD010-EU4DR6570959040-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.2	8.6
10°-20°	1512.2	23.5
20°-30°	1848.5	28.7
30°-40°	1499.8	23.3
40°-50°	747.4	11.6
50°-60°	208.5	3.2
60°-70°	47.4	0.7
70°-80°	12.3	0.2
80°-90°	3.2	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°	3913.0	60.8
0°-40°	5412.8	84.2
0°-60°	6368.6	99.0
0°-90°	6431.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6431.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5840	
5°	5803	552
15°	5448	1512
25°	4056	1848
35°	2416	1500
45°	951	747
55°	214	208
65°	46	47
75°	13	12
85°	3	3
90°	0	



TEST NUMBER: P752805

CATALOG NUMBER: LD4D70BD010-EU4DR6570959040-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

0°	
0°	5839.6
2.5°	5835.3
5°	5802.7
7.5°	5783.8
10°	5731.5
12.5°	5625.0
15°	5448.3
17.5°	5172.0
20°	4825.3
22.5°	4451.1
25°	4055.5
27.5°	3632.5
30°	3223.1
32.5°	2819.0
35°	2415.6
37.5°	2013.2
40°	1630.4
42.5°	1271.7
45°	950.8
47.5°	662.5
50°	450.5
52.5°	310.6
55°	213.7
57.5°	144.2
60°	97.8
62.5°	67.8
65°	45.5
67.5°	23.2
70°	15.4
72.5°	14.6
75°	12.9
77.5°	8.6
80°	6.0
82.5°	4.3
85°	2.6
87.5°	1.7
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)