

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: P748200

Luminaire Tested: LD4D40BD010-EU4DR7040509035-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR7040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

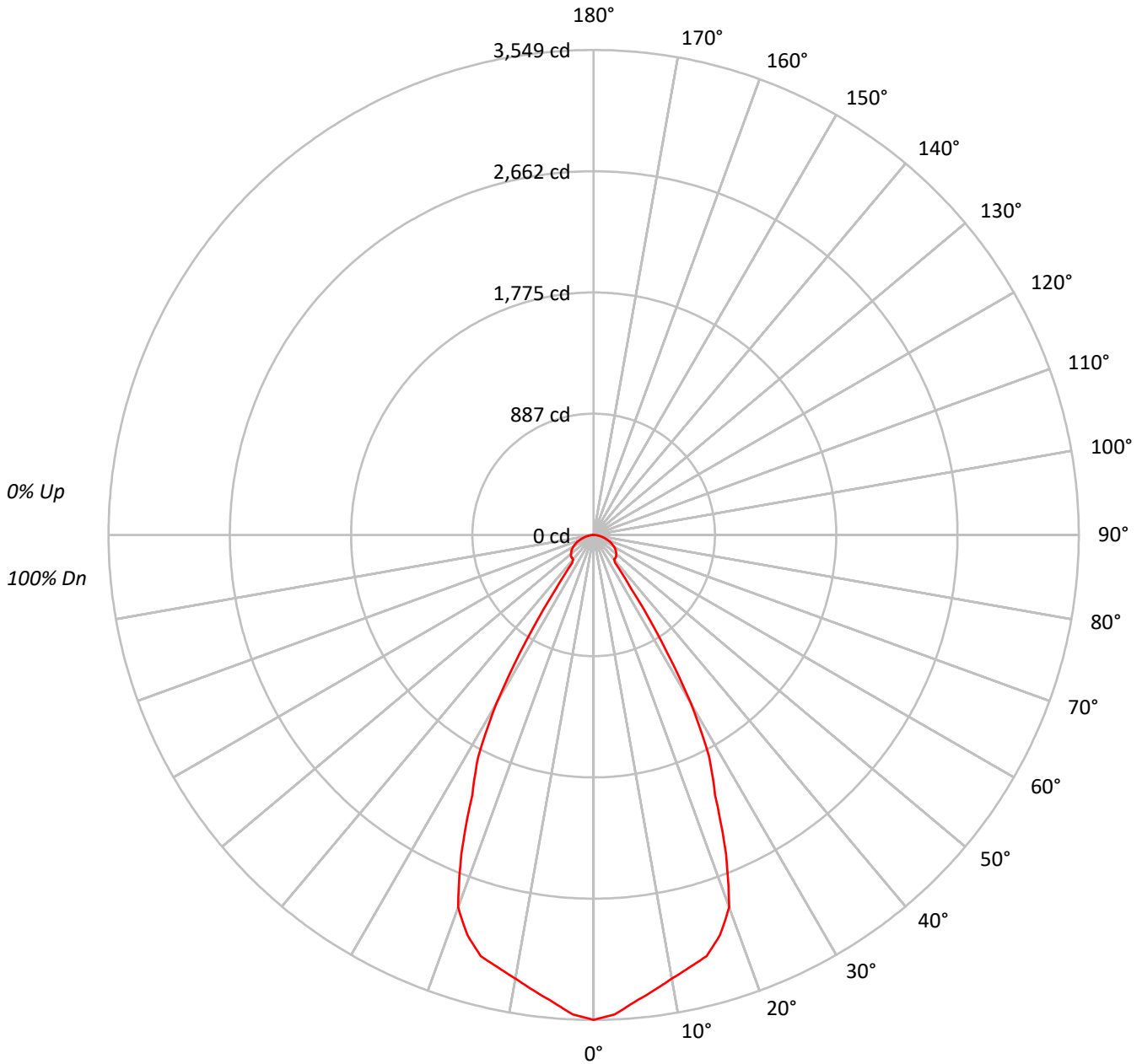
Lumens per Lamp: N/A
Luminaire Lumens: 3156.8 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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: P748200
CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P748200

CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBSQW1MW

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	387788
5°	376273
10°	365779
15°	360984
20°	337087
25°	253228
30°	179013
35°	63410
40°	33347
45°	35508
50°	36767
55°	37469
60°	37695
65°	36893
70°	34821
75°	32252
80°	28629
85°	23192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 37701 cd/sqm



TEST NUMBER: P748200

CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.6	10.3
10°-20°	887.6	28.1
20°-30°	977.5	31.0
30°-40°	373.5	11.8
40°-50°	176.4	5.6
50°-60°	175.3	5.6
60°-70°	140.4	4.4
70°-80°	80.7	2.6
80°-90°	21.9	0.7
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°	2188.7	69.3
0°-40°	2562.2	81.2
0°-60°	2913.9	92.3
0°-90°	3156.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3549	
5°	3431	324
15°	3191	888
25°	2100	978
35°	475	373
45°	230	176
55°	197	175
65°	143	140
75°	76	81
85°	18	22
90°	0	



TEST NUMBER: P748200

CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3549.2
2.5°	3512.1
5°	3430.7
7.5°	3362.7
10°	3296.9
12.5°	3241.3
15°	3191.3
17.5°	3070.5
20°	2899.1
22.5°	2529.3
25°	2100.5
27.5°	1828.6
30°	1418.9
32.5°	916.5
35°	475.4
37.5°	256.8
40°	233.8
42.5°	232.1
45°	229.8
47.5°	224.8
50°	216.3
52.5°	206.8
55°	196.7
57.5°	185.4
60°	172.5
62.5°	157.9
65°	142.7
67.5°	125.9
70°	109.0
72.5°	92.2
75°	76.4
77.5°	60.1
80°	45.5
82.5°	32.0
85°	18.5
87.5°	7.3
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)