

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: P748043

Luminaire Tested: LD4D40BD010-EU4DR6040509035-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6040509035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

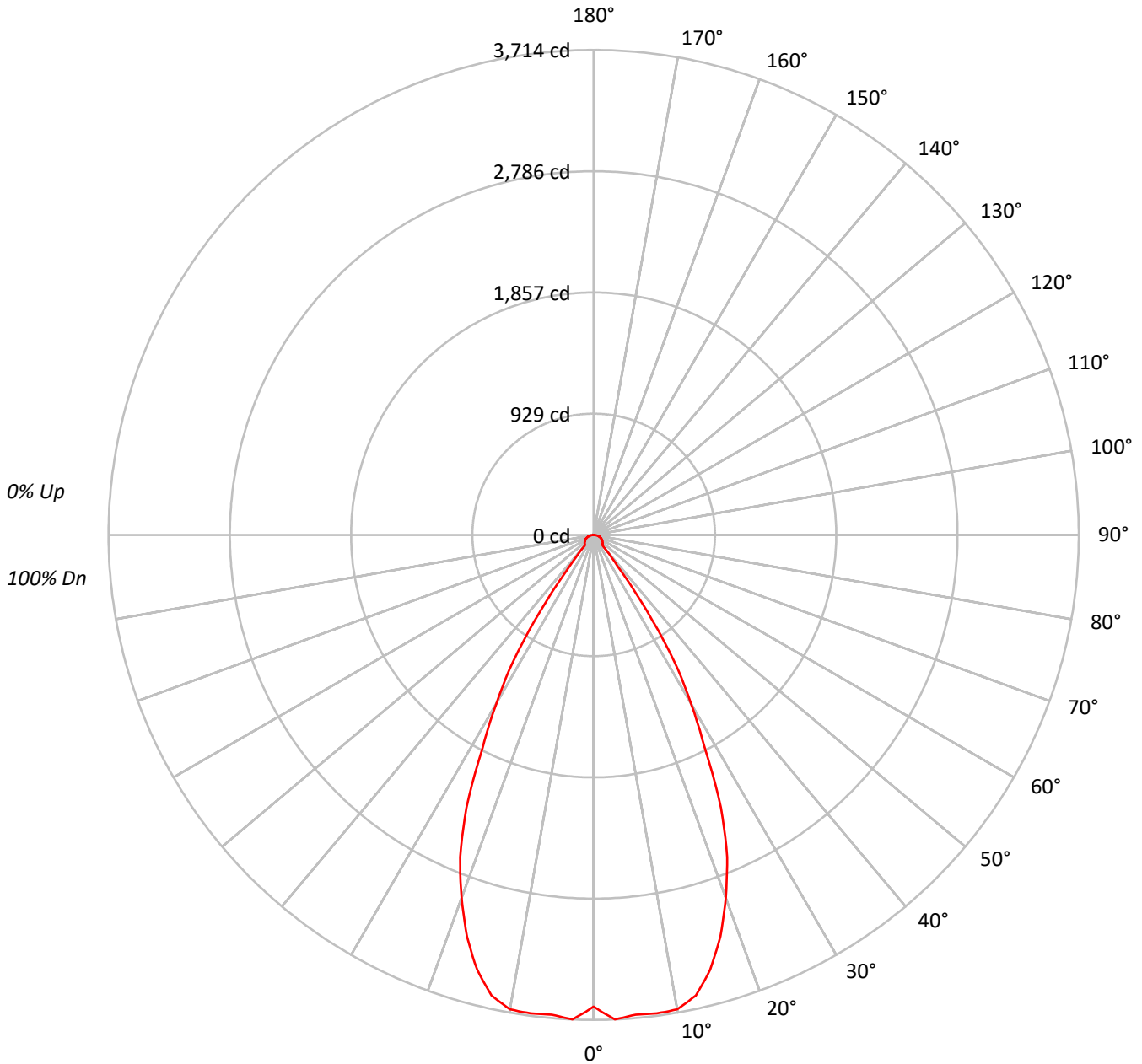
Lumens per Lamp: N/A
Luminaire Lumens: 3042.2 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	394748
5°	404460
10°	409347
15°	389953
20°	343819
25°	278086
30°	188110
35°	94262
40°	15290
45°	14973
50°	15264
55°	15487
60°	15930
65°	16288
70°	16676
75°	16886
80°	16296
85°	13539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 16886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	11.6
10°-20°	953.6	31.3
20°-30°	1026.0	33.7
30°-40°	446.0	14.7
40°-50°	74.9	2.5
50°-60°	72.8	2.4
60°-70°	62.3	2.0
70°-80°	41.7	1.4
80°-90°	12.5	0.4
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°	2332.0	76.7
0°-40°	2778.0	91.3
0°-60°	2925.7	96.2
0°-90°	3042.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3613	
5°	3688	352
15°	3447	954
25°	2307	1026
35°	707	446
45°	97	75
55°	81	73
65°	63	62
75°	40	42
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3612.9
2.5°	3714.5
5°	3687.7
7.5°	3696.2
10°	3689.6
12.5°	3613.4
15°	3447.4
17.5°	3224.6
20°	2957.0
22.5°	2670.7
25°	2306.7
27.5°	1845.0
30°	1491.0
32.5°	1149.1
35°	706.7
37.5°	302.3
40°	107.2
42.5°	98.7
45°	96.9
47.5°	93.6
50°	89.8
52.5°	85.6
55°	81.3
57.5°	77.1
60°	72.9
62.5°	68.2
65°	63.0
67.5°	57.8
70°	52.2
72.5°	46.1
75°	40.0
77.5°	32.9
80°	25.9
82.5°	18.3
85°	10.8
87.5°	3.8
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

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— 0°-180°

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