

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: P748212

Luminaire Tested: LD4D40BD010-EU4DR7040509040-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748212
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-EU4DR7040509040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

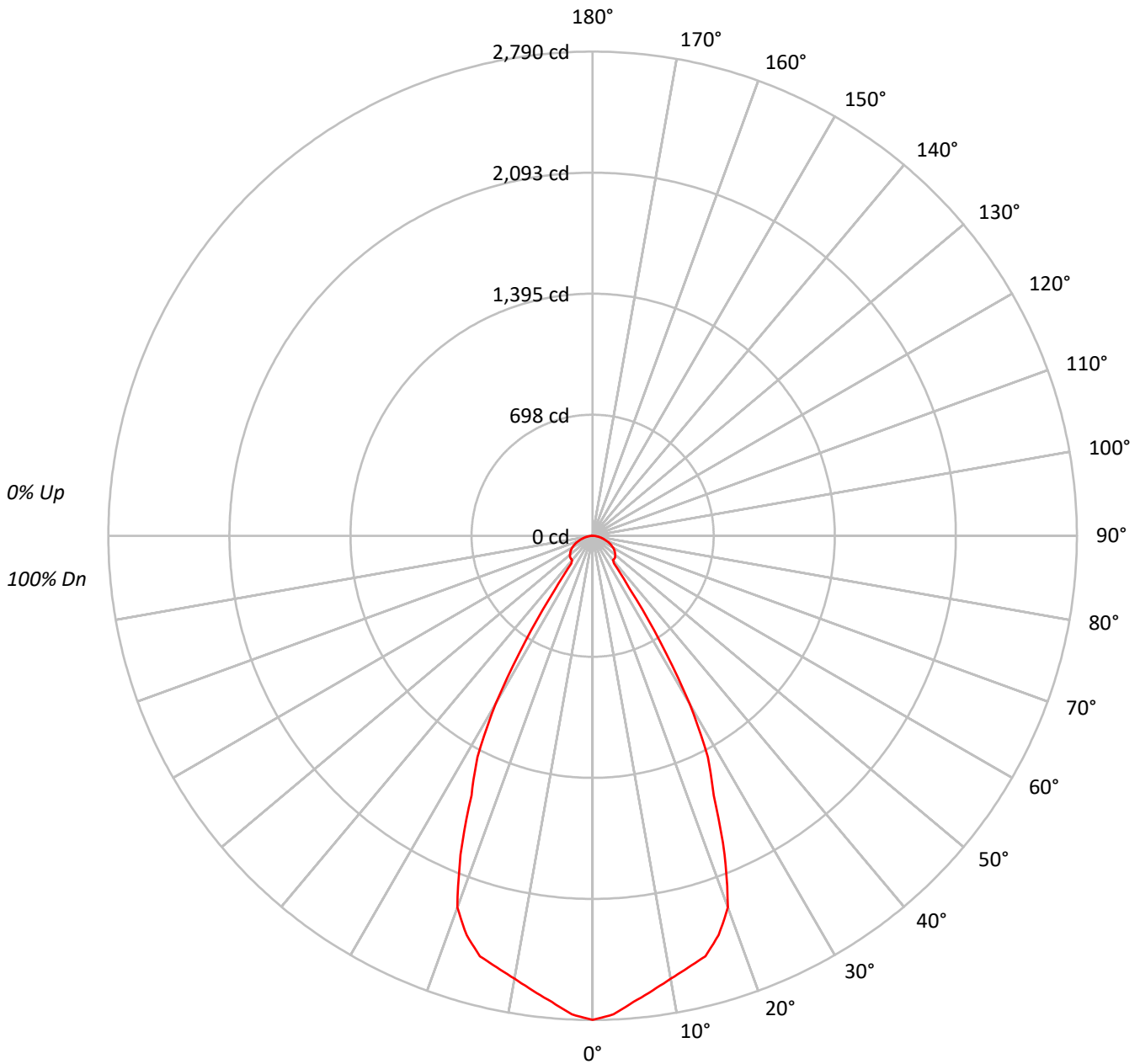
Lumens per Lamp: N/A
Luminaire Lumens: 2481.1 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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



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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	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°	304783
5°	295725
10°	287484
15°	283715
20°	264928
25°	199026
30°	140697
35°	49832
40°	26201
45°	27906
50°	28897
55°	29450
60°	29632
65°	29007
70°	27377
75°	25371
80°	22526
85°	18303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 29632 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	10.3
10°-20°	697.6	28.1
20°-30°	768.3	31.0
30°-40°	293.5	11.8
40°-50°	138.6	5.6
50°-60°	137.8	5.6
60°-70°	110.3	4.4
70°-80°	63.4	2.6
80°-90°	17.2	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°	1720.2	69.3
0°-40°	2013.7	81.2
0°-60°	2290.1	92.3
0°-90°	2481.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2790	
5°	2696	254
15°	2508	698
25°	1651	768
35°	374	294
45°	181	139
55°	155	138
65°	112	110
75°	60	63
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2789.5
2.5°	2760.4
5°	2696.3
7.5°	2642.9
10°	2591.2
12.5°	2547.5
15°	2508.2
17.5°	2413.2
20°	2278.5
22.5°	1987.9
25°	1650.9
27.5°	1437.2
30°	1115.2
32.5°	720.3
35°	373.6
37.5°	201.8
40°	183.7
42.5°	182.4
45°	180.6
47.5°	176.7
50°	170.0
52.5°	162.5
55°	154.6
57.5°	145.7
60°	135.6
62.5°	124.1
65°	112.2
67.5°	98.9
70°	85.7
72.5°	72.4
75°	60.1
77.5°	47.3
80°	35.8
82.5°	25.2
85°	14.6
87.5°	5.7
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

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— 0°-180°

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