

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: P748056

Luminaire Tested: LD4D40BD010-EU4DR6040509040-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748056
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-EU4DR6040509040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

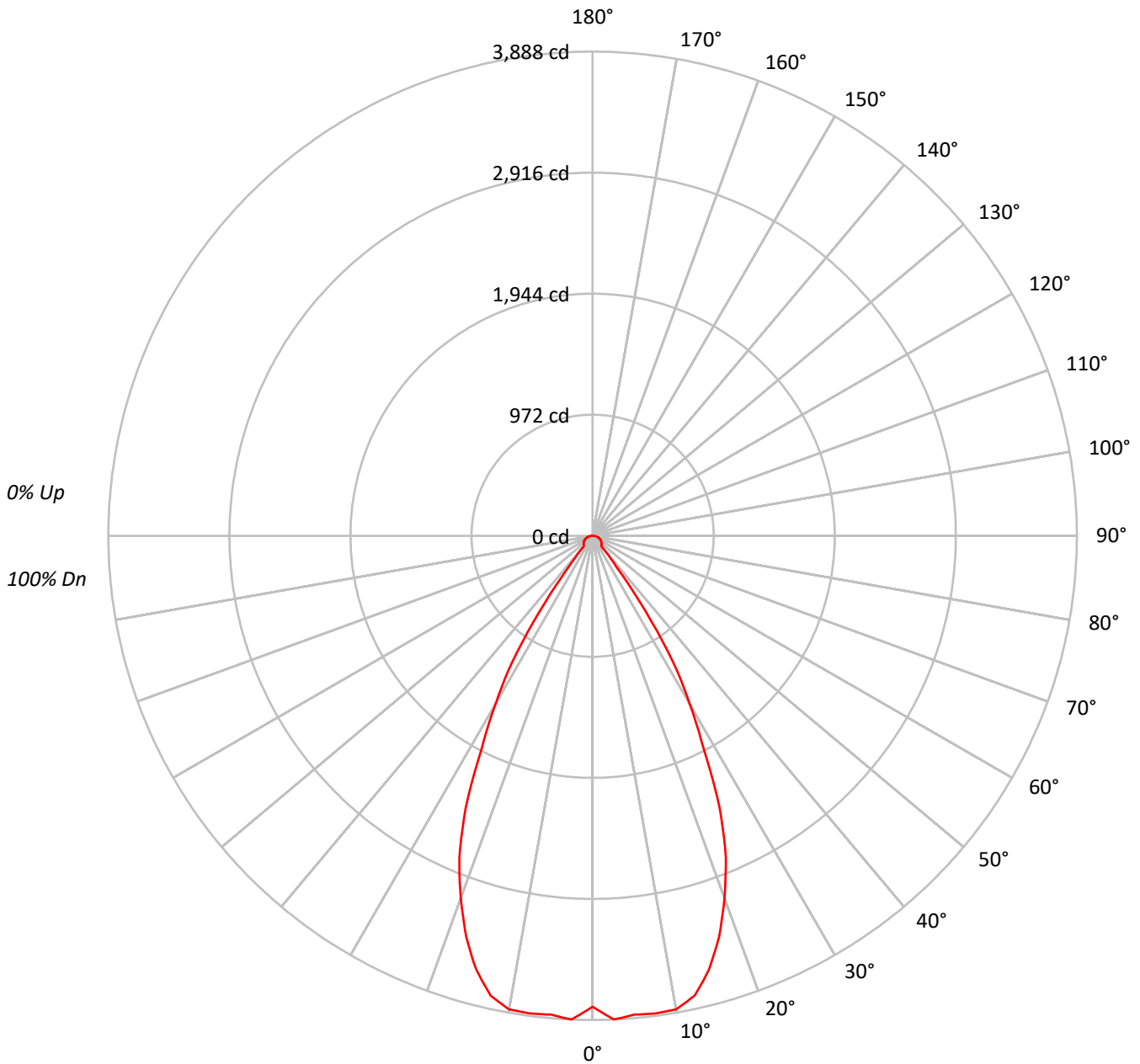
Lumens per Lamp: N/A
Luminaire Lumens: 3184.4 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70	70	70	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62	62	62	62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59	59	59	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	413202
5°	423368
10°	428486
15°	408187
20°	359899
25°	291094
30°	196903
35°	98663
40°	16003
45°	15668
50°	15978
55°	16211
60°	16673
65°	17063
70°	17442
75°	17646
80°	17052
85°	14166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 17646 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	11.6
10°-20°	998.2	31.3
20°-30°	1073.9	33.7
30°-40°	466.8	14.7
40°-50°	78.4	2.5
50°-60°	76.2	2.4
60°-70°	65.2	2.0
70°-80°	43.6	1.4
80°-90°	13.0	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°	2441.0	76.7
0°-40°	2907.9	91.3
0°-60°	3062.5	96.2
0°-90°	3184.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3782	
5°	3860	369
15°	3609	998
25°	2415	1074
35°	740	467
45°	101	78
55°	85	76
65°	66	65
75°	42	44
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3781.8
2.5°	3888.2
5°	3860.1
7.5°	3869.0
10°	3862.1
12.5°	3782.3
15°	3608.6
17.5°	3375.3
20°	3095.3
22.5°	2795.5
25°	2414.6
27.5°	1931.3
30°	1560.7
32.5°	1202.9
35°	739.7
37.5°	316.5
40°	112.2
42.5°	103.4
45°	101.4
47.5°	97.9
50°	94.0
52.5°	89.6
55°	85.1
57.5°	80.7
60°	76.3
62.5°	71.4
65°	66.0
67.5°	60.5
70°	54.6
72.5°	48.2
75°	41.8
77.5°	34.5
80°	27.1
82.5°	19.2
85°	11.3
87.5°	3.9
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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