

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: P755857

Luminaire Tested: LD4D90BD010-EU4DR6070959040-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755857
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: LD4D90BD010-EU4DR6070959040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

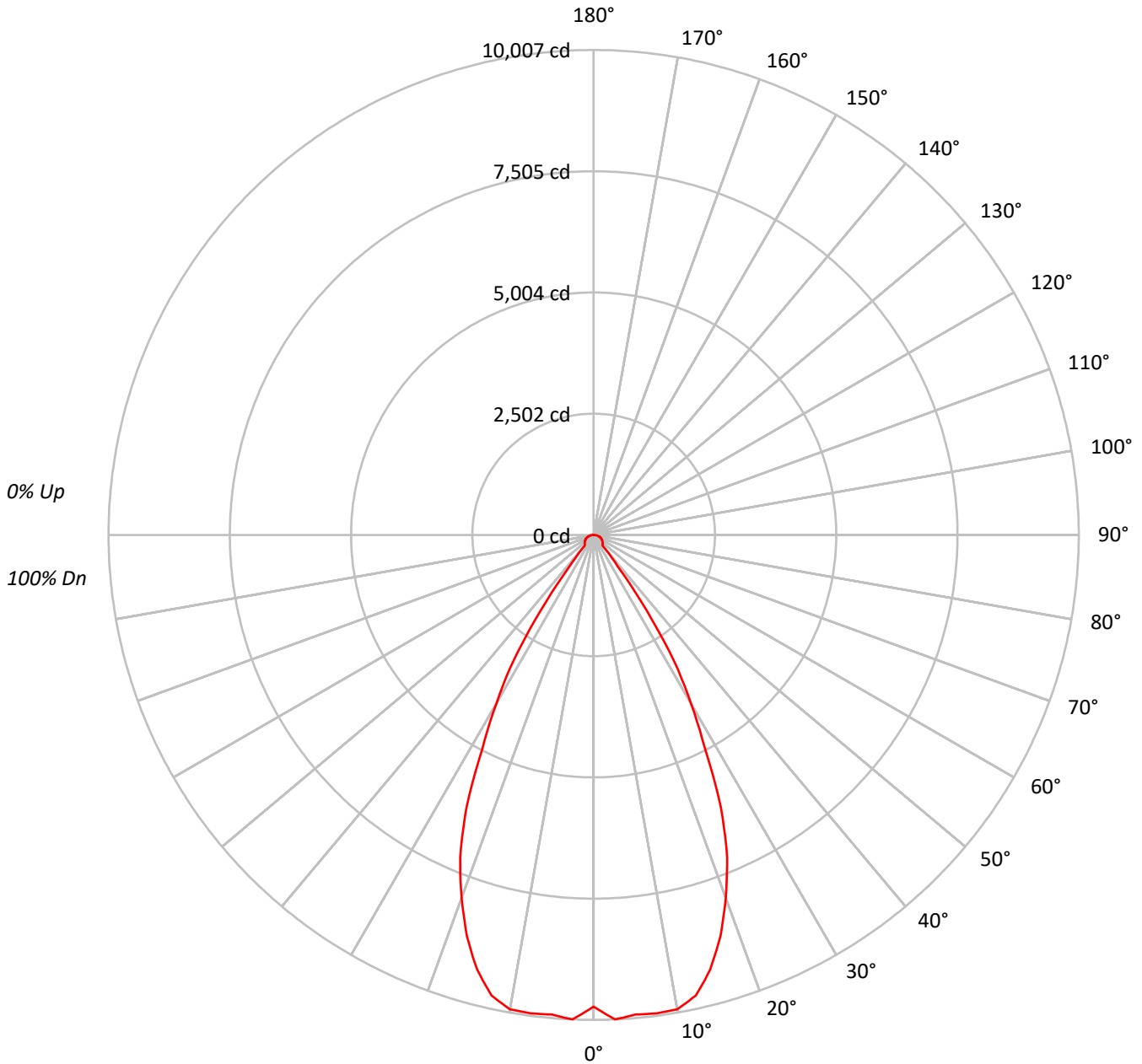
Lumens per Lamp: N/A
Luminaire Lumens: 8195.5 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1063468
5°	1089619
10°	1102773
15°	1050545
20°	926253
25°	749183
30°	506761
35°	253934
40°	41191
45°	40314
50°	41118
55°	41736
60°	42896
65°	43873
70°	44916
75°	45466
80°	43856
85°	36481

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 45466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	949.5	11.6
10°-20°	2568.9	31.3
20°-30°	2764.0	33.7
30°-40°	1201.4	14.7
40°-50°	201.8	2.5
50°-60°	196.2	2.4
60°-70°	167.8	2.0
70°-80°	112.3	1.4
80°-90°	33.6	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°	6282.4	76.7
0°-40°	7483.9	91.3
0°-60°	7881.8	96.2
0°-90°	8195.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8195.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9733	
5°	9935	950
15°	9287	2569
25°	6214	2764
35°	1904	1201
45°	261	202
55°	219	196
65°	170	168
75°	108	112
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9733.3
2.5°	10006.9
5°	9934.7
7.5°	9957.5
10°	9939.7
12.5°	9734.5
15°	9287.4
17.5°	8687.0
20°	7966.2
22.5°	7194.8
25°	6214.4
27.5°	4970.5
30°	4016.7
32.5°	3095.8
35°	1903.8
37.5°	814.5
40°	288.8
42.5°	266.0
45°	260.9
47.5°	252.1
50°	241.9
52.5°	230.5
55°	219.1
57.5°	207.7
60°	196.3
62.5°	183.7
65°	169.7
67.5°	155.8
70°	140.6
72.5°	124.1
75°	107.7
77.5°	88.7
80°	69.7
82.5°	49.4
85°	29.1
87.5°	10.1
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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