

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: P755831

Luminaire Tested: LD4D90BD010-EU4DR6070959030-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755831
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-EU4DR6070959030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

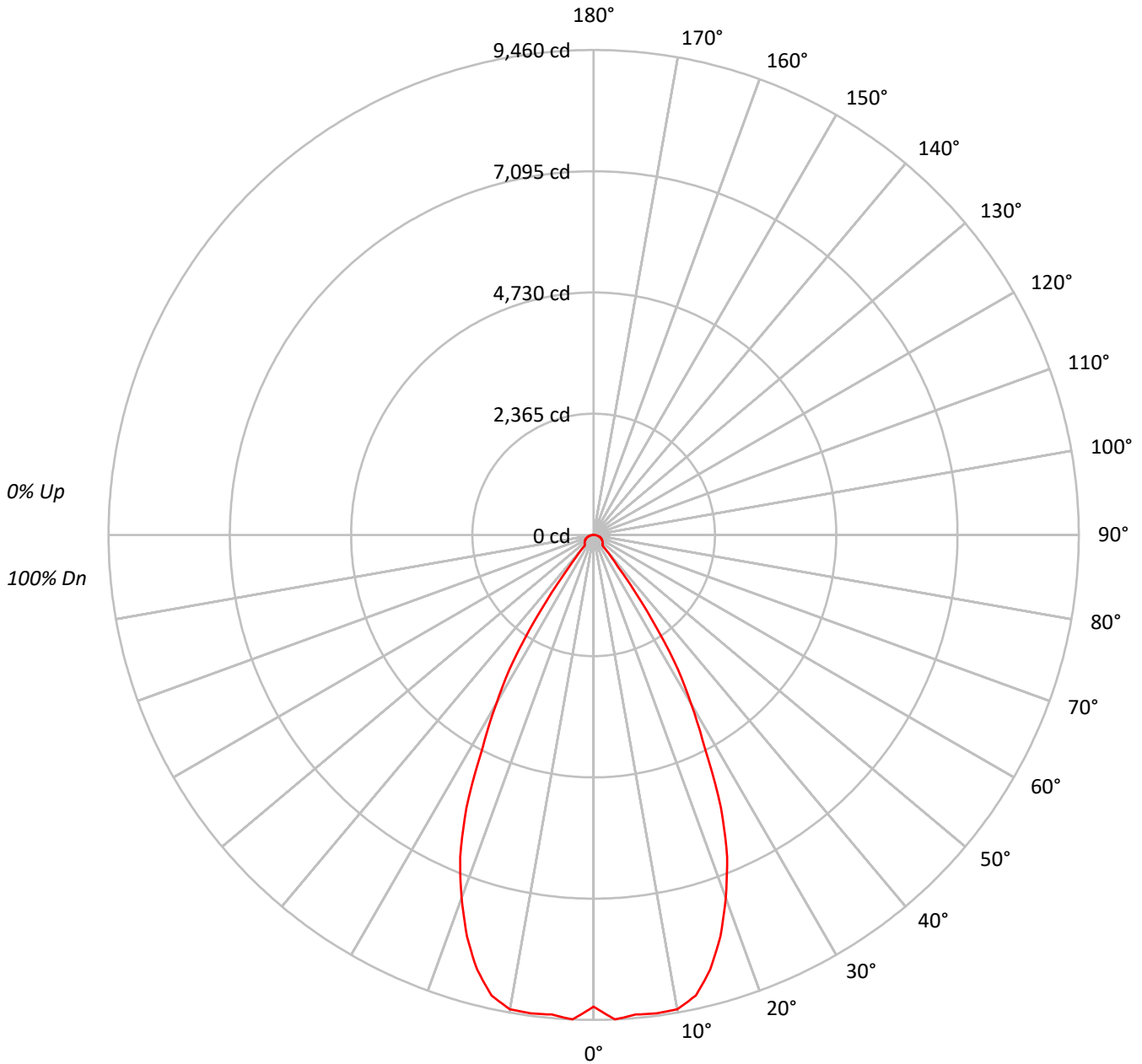
Lumens per Lamp: N/A
Luminaire Lumens: 7747.9 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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°	1005374
5°	1030097
10°	1042540
15°	993162
20°	875663
25°	708254
30°	479080
35°	240062
40°	38938
45°	38120
50°	38874
55°	39470
60°	40558
65°	41495
70°	42456
75°	42975
80°	41465
85°	34475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 42975 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.6	11.6
10°-20°	2428.6	31.3
20°-30°	2613.0	33.7
30°-40°	1135.8	14.7
40°-50°	190.8	2.5
50°-60°	185.5	2.4
60°-70°	158.6	2.0
70°-80°	106.2	1.4
80°-90°	31.8	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°	5939.3	76.7
0°-40°	7075.1	91.3
0°-60°	7451.3	96.2
0°-90°	7747.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7747.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9202	
5°	9392	898
15°	8780	2429
25°	5875	2613
35°	1800	1136
45°	247	191
55°	207	185
65°	160	159
75°	102	106
85°	28	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9201.6
2.5°	9460.3
5°	9392.0
7.5°	9413.6
10°	9396.8
12.5°	9202.8
15°	8780.1
17.5°	8212.5
20°	7531.1
22.5°	6801.8
25°	5874.9
27.5°	4699.0
30°	3797.3
32.5°	2926.7
35°	1799.8
37.5°	770.0
40°	273.0
42.5°	251.5
45°	246.7
47.5°	238.3
50°	228.7
52.5°	217.9
55°	207.2
57.5°	196.4
60°	185.6
62.5°	173.6
65°	160.5
67.5°	147.3
70°	132.9
72.5°	117.4
75°	101.8
77.5°	83.8
80°	65.9
82.5°	46.7
85°	27.5
87.5°	9.6
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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