

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: P755910

Luminaire Tested: LD4D90BD010-EU4DR6570959035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

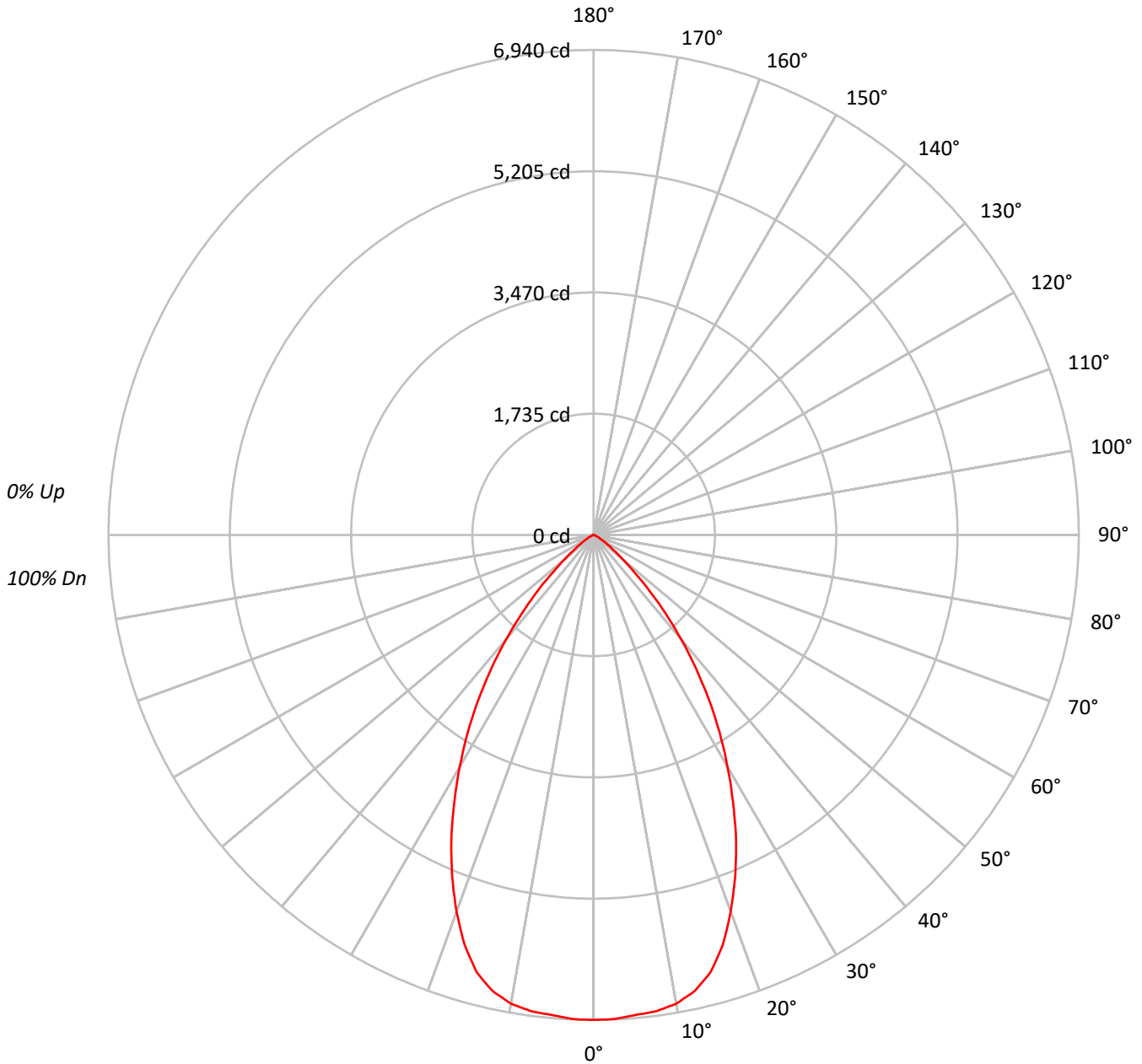
Lumens per Lamp: N/A
Luminaire Lumens: 7643.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

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					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				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93				93				
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				78				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72				72				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61				
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56				56				
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52				52				
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49				
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	405299
5°	404280
10°	403931
15°	391481
20°	356393
25°	310576
30°	258312
35°	204675
40°	147724
45°	93325
50°	48647
55°	25853
60°	13585
65°	7463
70°	3142
75°	3453
80°	2388
85°	2077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 93325 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.3	8.6
10°-20°	1797.1	23.5
20°-30°	2196.7	28.7
30°-40°	1782.3	23.3
40°-50°	888.2	11.6
50°-60°	247.7	3.2
60°-70°	56.3	0.7
70°-80°	14.6	0.2
80°-90°	3.7	0.0
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°	4650.1	60.8
0°-40°	6432.4	84.2
0°-60°	7568.3	99.0
0°-90°	7643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7643.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6940	
5°	6896	656
15°	6475	1797
25°	4820	2197
35°	2871	1782
45°	1130	888
55°	254	248
65°	54	56
75°	15	15
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6939.6
2.5°	6934.5
5°	6895.8
7.5°	6873.3
10°	6811.1
12.5°	6684.7
15°	6474.6
17.5°	6146.2
20°	5734.2
22.5°	5289.6
25°	4819.5
27.5°	4316.7
30°	3830.3
32.5°	3350.0
35°	2870.7
37.5°	2392.4
40°	1937.6
42.5°	1511.3
45°	1129.9
47.5°	787.3
50°	535.4
52.5°	369.2
55°	253.9
57.5°	171.3
60°	116.3
62.5°	80.6
65°	54.0
67.5°	27.5
70°	18.4
72.5°	17.3
75°	15.3
77.5°	10.2
80°	7.1
82.5°	5.1
85°	3.1
87.5°	2.0
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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