

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: P754335

Luminaire Tested: LD4D80BD010-EU4DR6570959027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6570959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

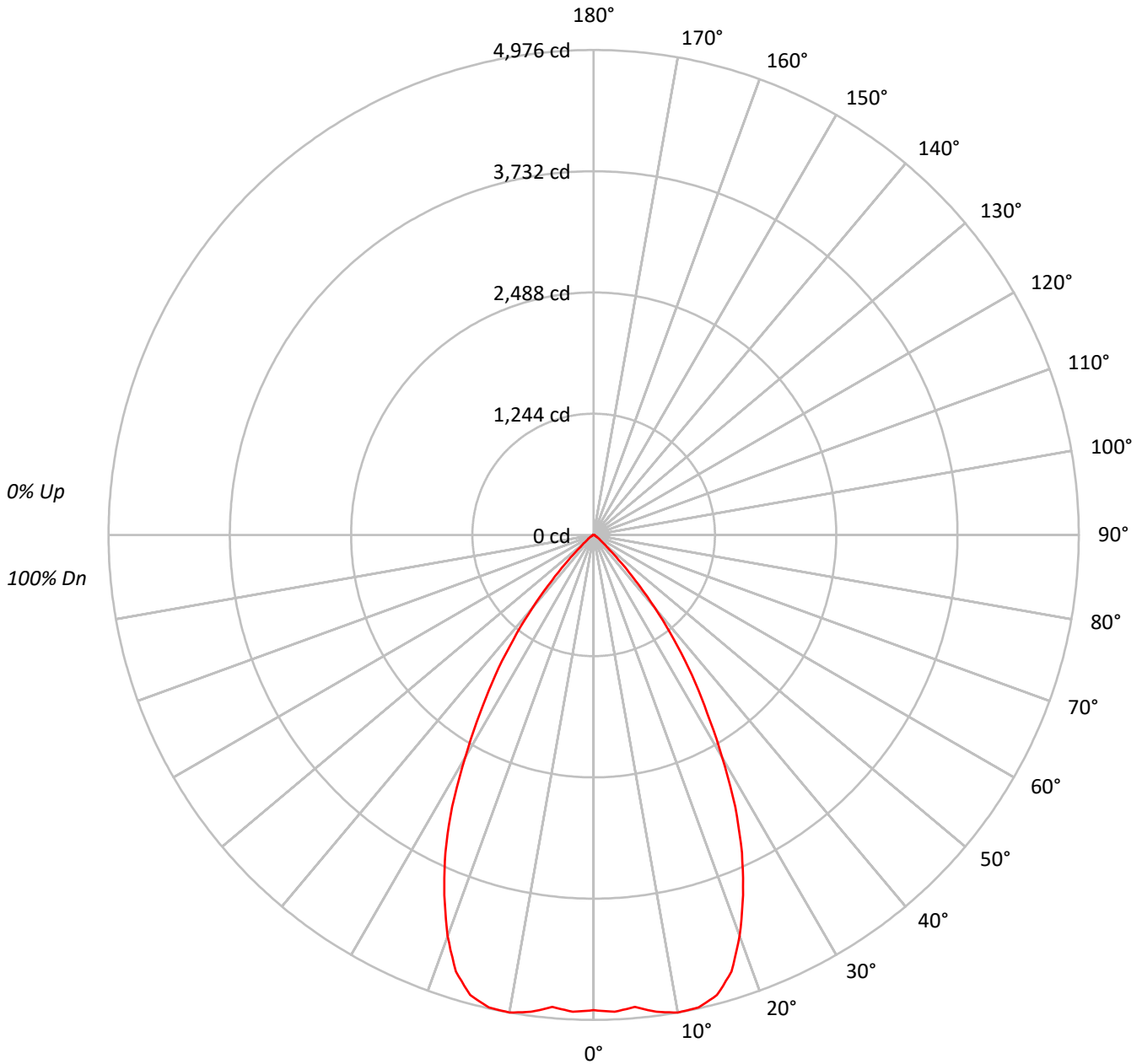
Lumens per Lamp: N/A
Luminaire Lumens: 4953.5 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87								
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80								
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75								
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69								
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65								
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60								
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57								
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53								
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50								

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	532865
5°	533299
10°	552080
15°	552997
20°	509124
25°	433796
30°	332087
35°	234620
40°	138494
45°	56229
50°	20381
55°	11353
60°	6512
65°	3594
70°	3770
75°	2913
80°	3083
85°	2633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 56229 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	9.5
10°-20°	1354.6	27.3
20°-30°	1625.3	32.8
30°-40°	1092.2	22.0
40°-50°	327.0	6.6
50°-60°	57.7	1.2
60°-70°	16.4	0.3
70°-80°	8.0	0.2
80°-90°	2.6	0.1
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°	3449.5	69.6
0°-40°	4541.8	91.7
0°-60°	4926.5	99.5
0°-90°	4953.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4877	
5°	4862	470
15°	4889	1355
25°	3598	1625
35°	1759	1092
45°	364	327
55°	60	58
65°	14	16
75°	7	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4877.0
2.5°	4897.8
5°	4862.4
7.5°	4935.9
10°	4976.1
12.5°	4966.4
15°	4888.8
17.5°	4698.9
20°	4378.7
22.5°	4001.7
25°	3598.3
27.5°	3143.0
30°	2632.2
32.5°	2169.2
35°	1759.0
37.5°	1353.5
40°	971.0
42.5°	634.1
45°	363.9
47.5°	192.7
50°	119.9
52.5°	83.2
55°	59.6
57.5°	43.0
60°	29.8
62.5°	19.4
65°	13.9
67.5°	12.5
70°	11.8
72.5°	9.0
75°	6.9
77.5°	6.2
80°	4.9
82.5°	3.5
85°	2.1
87.5°	1.4
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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(END OF REPORT)