

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: P755454

Luminaire Tested: LD4D90BD010-EU4DR3570959035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR3570959035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

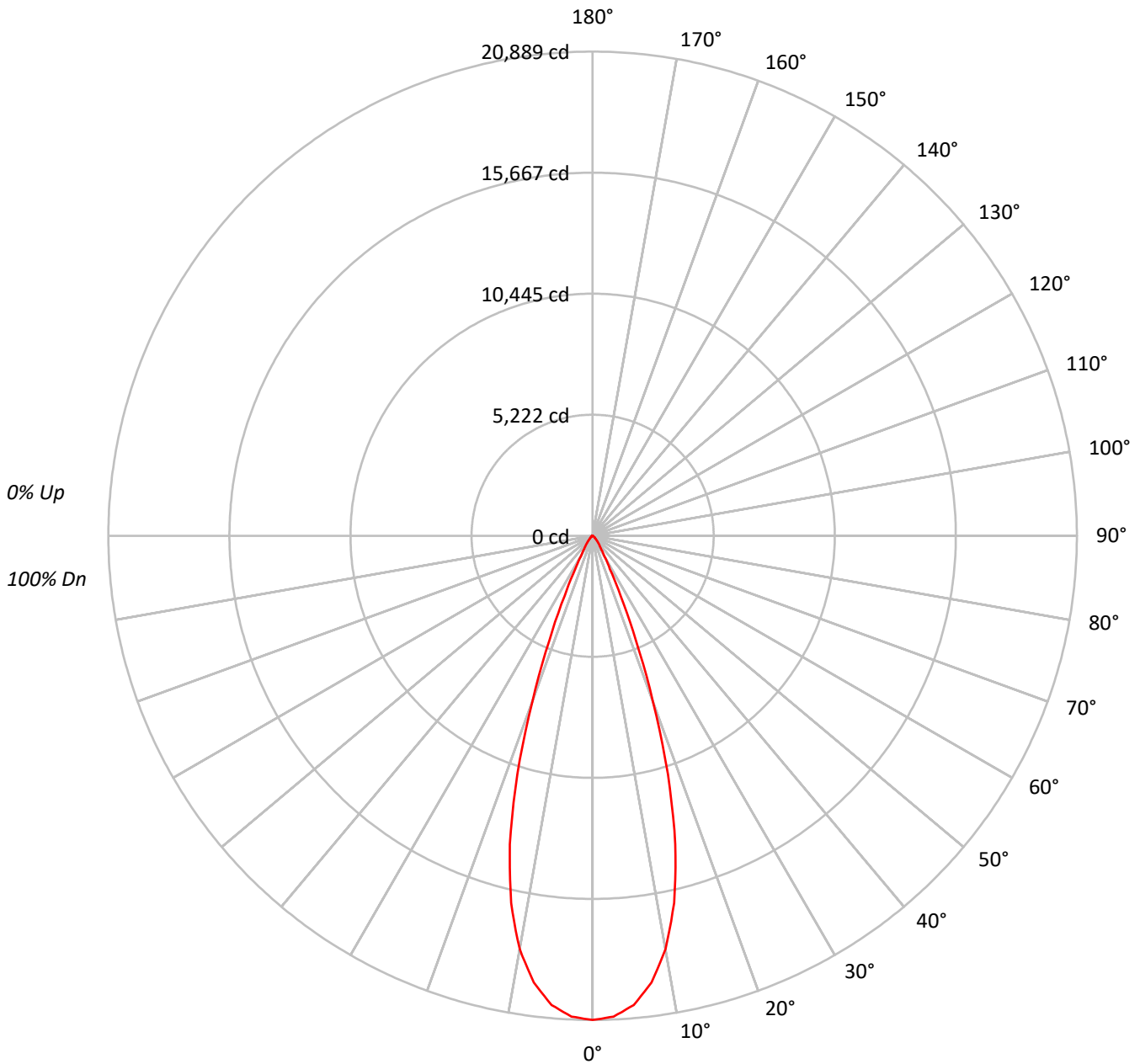
Lumens per Lamp: N/A
Luminaire Lumens: 7591.7 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P755454
CATALOG NUMBER: LD4D90BD010-EU4DR3570959035-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755454

CATALOG NUMBER: LD4D90BD010-EU4DR3570959035-4LBSQW1MW

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			
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96			
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92			
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88			
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84			
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81			
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78			
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75			
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72			
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70			
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2282315
5°	2228692
10°	2008638
15°	1559020
20°	884255
25°	344018
30°	128346
35°	70346
40°	45984
45°	27983
50°	17814
55°	12591
60°	9200
65°	5016
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27983 cd/sqm



TEST NUMBER: P755454

CATALOG NUMBER: LD4D90BD010-EU4DR3570959035-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1868.9	24.6
10°-20°	3648.8	48.1
20°-30°	1488.1	19.6
30°-40°	356.1	4.7
40°-50°	148.4	2.0
50°-60°	61.4	0.8
60°-70°	19.2	0.3
70°-80°	0.4	0.0
80°-90°	0.3	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°	7005.8	92.3
0°-40°	7362.0	97.0
0°-60°	7571.8	99.7
0°-90°	7591.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7591.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20889	
5°	20320	###
15°	13783	3649
25°	2854	1488
35°	527	356
45°	181	148
55°	66	61
65°	19	19
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755454

CATALOG NUMBER: LD4D90BD010-EU4DR3570959035-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	20888.7
2.5°	20763.4
5°	20320.3
7.5°	19436.3
10°	18104.6
12.5°	16229.5
15°	13782.6
17.5°	10790.1
20°	7605.0
22.5°	4849.4
25°	2853.6
27.5°	1613.0
30°	1017.3
32.5°	714.3
35°	527.4
37.5°	407.8
40°	322.4
42.5°	248.3
45°	181.1
47.5°	135.6
50°	104.8
52.5°	83.2
55°	66.1
57.5°	53.5
60°	42.1
62.5°	30.8
65°	19.4
67.5°	6.8
70°	1.1
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	1.1
85°	0.0
87.5°	0.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)