

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: P744611

Luminaire Tested: LD4D20D010-EU4DR6020359035-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744611
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: LD4D20D010-EU4DR6020359035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1557.7 lumens
Efficiency: N/A
Efficacy: 67.4 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): 23.1
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



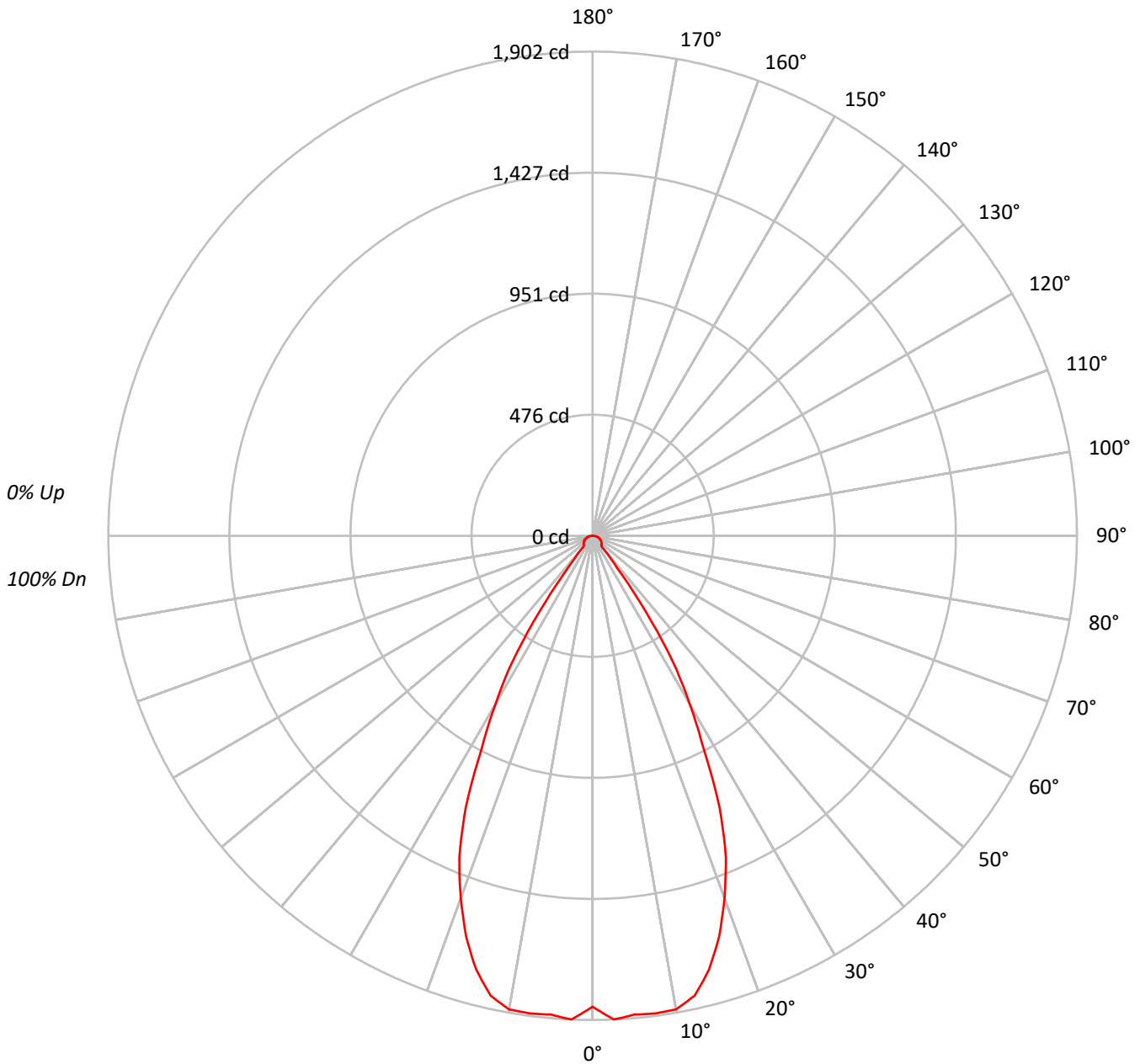
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202143
5°	207105
10°	209600
15°	199682
20°	176060
25°	142401
30°	96326
35°	48271
40°	7830
45°	7664
50°	7819
55°	7943
60°	8151
65°	8351
70°	8530
75°	8654
80°	8306
85°	7020

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 8654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	11.6
10°-20°	488.3	31.3
20°-30°	525.4	33.7
30°-40°	228.4	14.7
40°-50°	38.3	2.5
50°-60°	37.3	2.4
60°-70°	31.9	2.0
70°-80°	21.3	1.4
80°-90°	6.4	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°	1194.1	76.7
0°-40°	1422.5	91.3
0°-60°	1498.1	96.2
0°-90°	1557.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1850	
5°	1888	180
15°	1765	488
25°	1181	525
35°	362	228
45°	50	38
55°	42	37
65°	32	32
75°	20	21
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1850.1
2.5°	1902.0
5°	1888.3
7.5°	1892.6
10°	1889.2
12.5°	1850.3
15°	1765.3
17.5°	1651.2
20°	1514.2
22.5°	1367.5
25°	1181.2
27.5°	944.7
30°	763.5
32.5°	588.4
35°	361.9
37.5°	154.8
40°	54.9
42.5°	50.5
45°	49.6
47.5°	47.9
50°	46.0
52.5°	43.8
55°	41.7
57.5°	39.5
60°	37.3
62.5°	34.9
65°	32.3
67.5°	29.6
70°	26.7
72.5°	23.6
75°	20.5
77.5°	16.8
80°	13.2
82.5°	9.4
85°	5.6
87.5°	1.9
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)