

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: P744604

Luminaire Tested: LD4D20D010-EU4DR6020359035-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744604
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-EU4DR6020359035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1952.2 lumens
Efficiency: N/A
Efficacy: 84.5 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 (A_{in}): 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

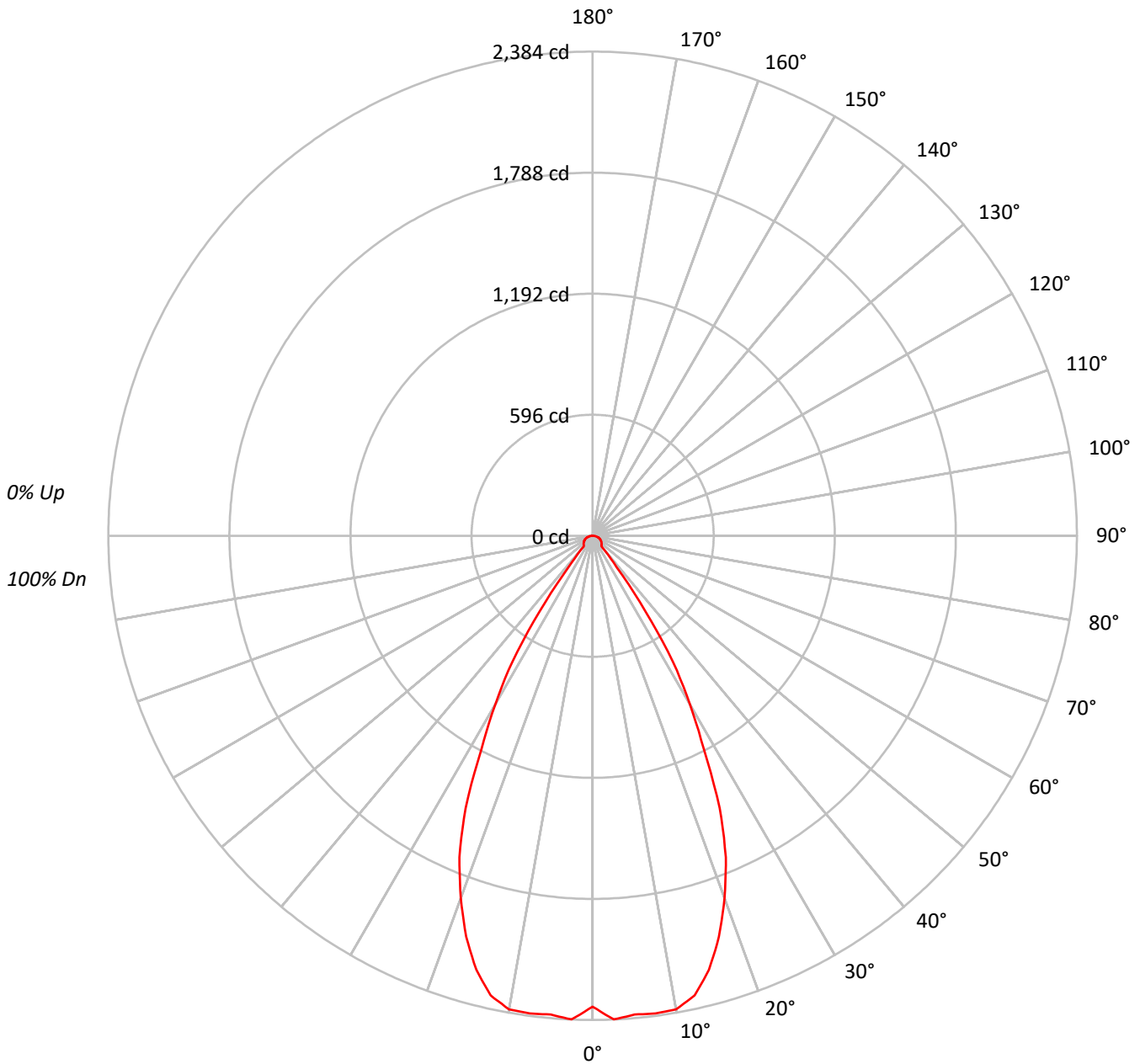


Downlight



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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				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°	253310
5°	259542
10°	262676
15°	250233
20°	220628
25°	178447
30°	120713
35°	60489
40°	9813
45°	9611
50°	9791
55°	9944
60°	10227
65°	10471
70°	10702
75°	10849
80°	10445
85°	8650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 10849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	11.6
10°-20°	611.9	31.3
20°-30°	658.4	33.7
30°-40°	286.2	14.7
40°-50°	48.1	2.5
50°-60°	46.7	2.4
60°-70°	40.0	2.0
70°-80°	26.8	1.4
80°-90°	8.0	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°	1496.4	76.7
0°-40°	1782.6	91.3
0°-60°	1877.4	96.2
0°-90°	1952.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2318	
5°	2366	226
15°	2212	612
25°	1480	658
35°	454	286
45°	62	48
55°	52	47
65°	40	40
75°	26	27
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2318.4
2.5°	2383.6
5°	2366.4
7.5°	2371.8
10°	2367.6
12.5°	2318.7
15°	2212.2
17.5°	2069.2
20°	1897.5
22.5°	1713.8
25°	1480.2
27.5°	1183.9
30°	956.8
32.5°	737.4
35°	453.5
37.5°	194.0
40°	68.8
42.5°	63.4
45°	62.2
47.5°	60.0
50°	57.6
52.5°	54.9
55°	52.2
57.5°	49.5
60°	46.8
62.5°	43.8
65°	40.5
67.5°	37.1
70°	33.5
72.5°	29.6
75°	25.7
77.5°	21.1
80°	16.6
82.5°	11.7
85°	6.9
87.5°	2.4
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)