

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: P739965

Luminaire Tested: LD4D05D010-EU4DR200210IC9040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR200210IC9040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 682.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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



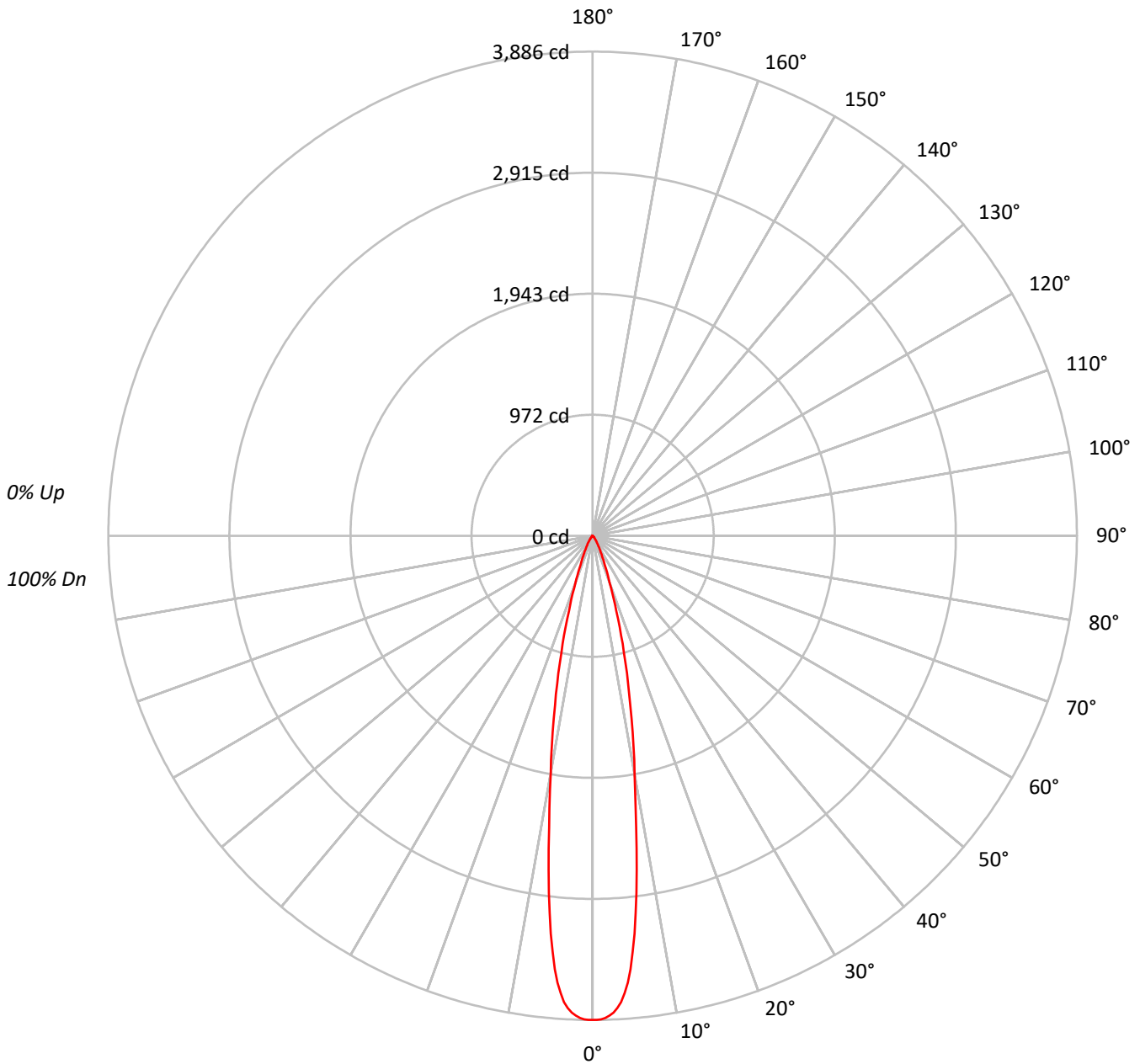
Downlight



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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	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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	98	96	95	94	94														
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	92	91	91	91														
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	89	88	88	88														
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	86	85	85	85														
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	84	83	83	83														
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	82	81	81	81														
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	80	79	79	79														
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	78	77	77	77														
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	76	75	75	75														
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	74	73	73	73														

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	424555
5°	383029
10°	214981
15°	109280
20°	46265
25°	21363
30°	11304
35°	6096
40°	3252
45°	1931
50°	1122
55°	591
60°	371
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1931 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	40.5
10°-20°	272.4	39.9
20°-30°	89.0	13.0
30°-40°	30.3	4.4
40°-50°	10.2	1.5
50°-60°	3.1	0.4
60°-70°	1.0	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	638.1	93.5
0°-40°	668.4	97.9
0°-60°	681.6	99.8
0°-90°	682.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3886	
5°	3492	277
15°	966	272
25°	177	89
35°	46	30
45°	12	10
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3885.7
0.5°	3885.7
1°	3880.9
1.5°	3871.2
2°	3853.5
2.5°	3830.0
3°	3796.8
3.5°	3750.4
4°	3681.6
4.5°	3597.8
5°	3492.3
5.5°	3353.5
6°	3211.3
6.5°	3048.4
7°	2888.8
7.5°	2702.0
8°	2535.2
8.5°	2367.4
9°	2212.4
9.5°	2070.2
10°	1937.7
12.5°	1391.3
15°	966.1
17.5°	631.1
20°	397.9
22.5°	257.8
25°	177.2
27.5°	124.6
30°	89.6
32.5°	64.4
35°	45.7
37.5°	31.8
40°	22.8
42.5°	16.6
45°	12.5
47.5°	9.7
50°	6.6
52.5°	4.2
55°	3.1
57.5°	2.4
60°	1.7
62.5°	1.4
65°	1.0



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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

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— 0°-180°

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Scaled Data Report





67.5°		0.7
70°		0.3

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(END OF REPORT)