

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: P743001

Luminaire Tested: LD4D15D010-EU4DR2015309040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743001
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: LD4D15D010-EU4DR2015309040-4LBCSSQMB
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: 1442.8 lumens
Efficiency: N/A
Efficacy: 91.3 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): 15.8
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

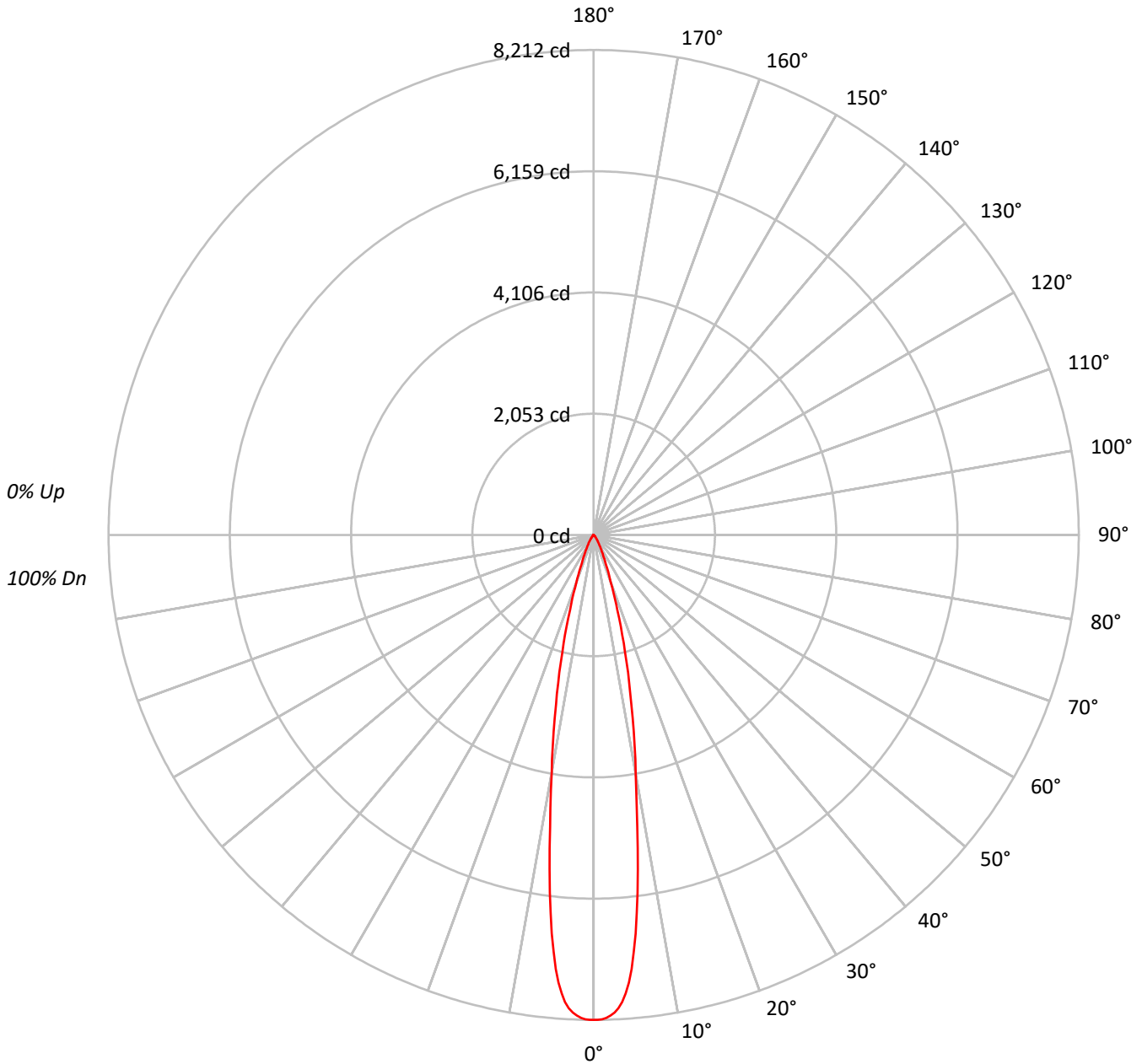


Downlight



TEST NUMBER: P743001
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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	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	92	91	89	88	86	85	83	81	79	77	75																				
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	93	92	91	89	88	86	85	83	81	79	77	75	73	71	69																					
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	89	88	86	85	83	81	79	77	75	73	71	69	67	65	63																					
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	86	85	83	81	79	77	75	73	71	69	67	65	63	61	59																					
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	83	81	79	77	75	73	71	69	67	65	63	61	59	57	55																					
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	81	79	77	75	73	71	69	67	65	63	61	59	57	55	53	51																				
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	79	77	75	73	71	69	67	65	63	61	59	57	55	53	51	49																				
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	77	75	73	71	69	67	65	63	61	59	57	55	53	51	49	47																				
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	75	73	71	69	67	65	63	61	59	57	55	53	51	49	47	45																				
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	73	71	69	67	65	63	61	59	57	55	53	51	49	47	45	43																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	897249
5°	809490
10°	454336
15°	230947
20°	97774
25°	45136
30°	23895
35°	12871
40°	6889
45°	4064
50°	2363
55°	1257
60°	809
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.7	40.5
10°-20°	575.7	39.9
20°-30°	188.1	13.0
30°-40°	64.0	4.4
40°-50°	21.5	1.5
50°-60°	6.5	0.5
60°-70°	2.2	0.2
70°-80°	0.1	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°	1348.5	93.5
0°-40°	1412.5	97.9
0°-60°	1440.6	99.8
0°-90°	1442.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8212	
5°	7381	585
15°	2042	576
25°	374	188
35°	96	64
45°	26	22
55°	7	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8212.0
0.5°	8212.0
1°	8201.8
1.5°	8181.3
2°	8144.0
2.5°	8094.3
3°	8024.1
3.5°	7926.1
4°	7780.6
4.5°	7603.6
5°	7380.6
5.5°	7087.4
6°	6786.8
6.5°	6442.4
7°	6105.3
7.5°	5710.4
8°	5357.9
8.5°	5003.3
9°	4675.7
9.5°	4375.1
10°	4095.1
12.5°	2940.4
15°	2041.7
17.5°	1333.8
20°	840.9
22.5°	544.8
25°	374.4
27.5°	263.3
30°	189.4
32.5°	136.0
35°	96.5
37.5°	67.3
40°	48.3
42.5°	35.1
45°	26.3
47.5°	20.5
50°	13.9
52.5°	8.8
55°	6.6
57.5°	5.1
60°	3.7
62.5°	2.9
65°	2.2



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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

Signify Classified - Internal
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Scaled Data Report





— 0°-180°

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67.5°		1.5
70°		0.7

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Scaled Data Report



(END OF REPORT)