

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: P740921

Luminaire Tested: LD4D08D010-EU4DR150210IC9050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D08D010-EU4DR150210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 799.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 8.9
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

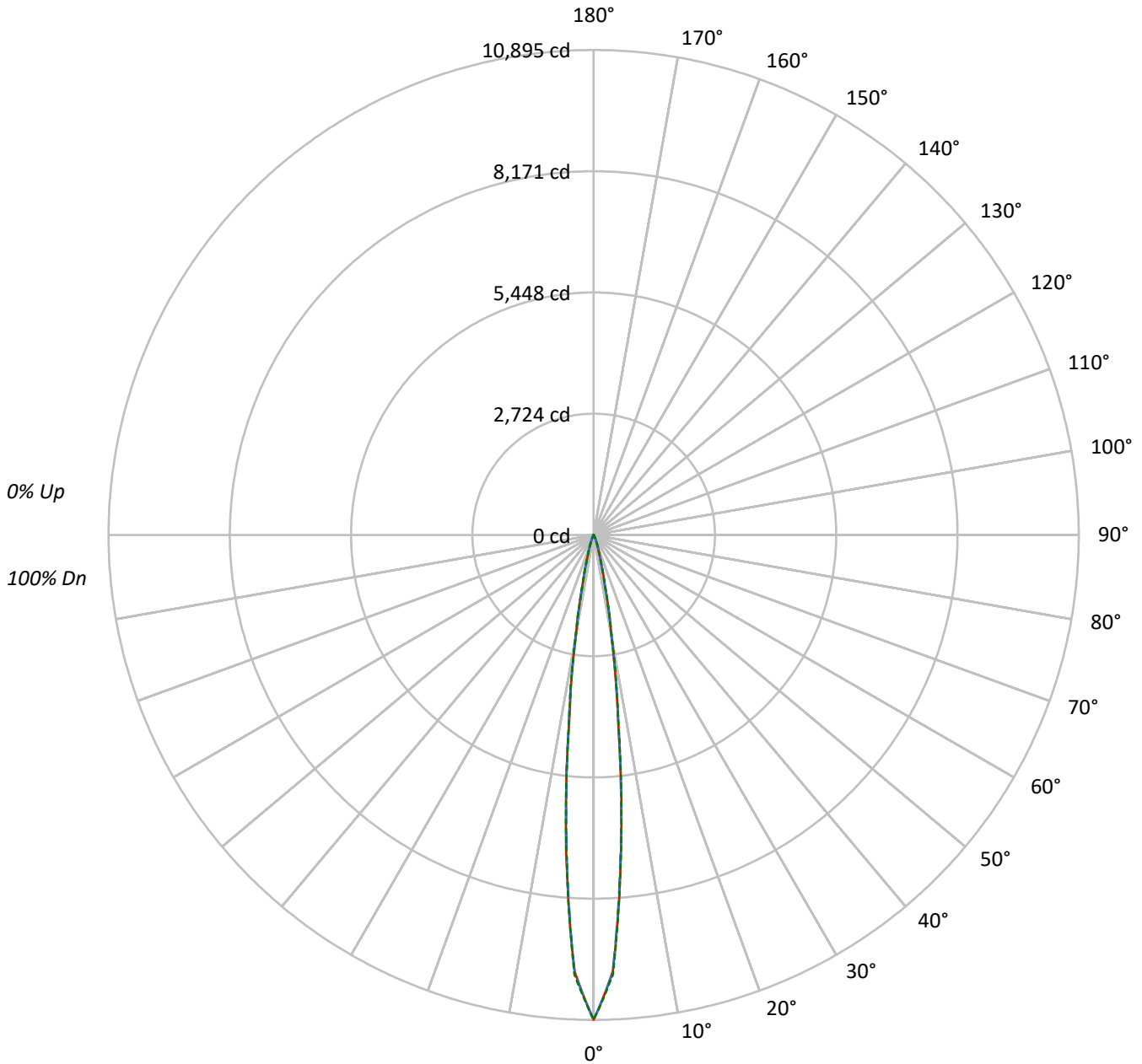


Downlight



TEST NUMBER: P740921
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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1225882	1225882	1225882
5°	720386	711057	716677
10°	214999	216511	219823
15°	53478	54520	52835
20°	16005	18533	16340
25°	5640	7182	5710
30°	2074	2726	2104
35°	1038	1169	1002
40°	653	717	653
45°	483	518	483
50°	382	382	382
55°	320	320	320
60°	260	260	260
65°	200	200	200
70°	168	168	168
75°	106	106	136
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 518 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.6	64.9
10°-20°	213.3	26.7
20°-30°	42.4	5.3
30°-40°	10.6	1.3
40°-50°	5.6	0.7
50°-60°	4.1	0.5
60°-70°	2.9	0.4
70°-80°	1.6	0.2
80°-90°	0.5	0.1
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°	774.3	96.8
0°-40°	784.9	98.2
0°-60°	794.6	99.4
0°-90°	799.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10895	10895	10895	10895	10895	
5°	7088	7016	6997	7045	7052	518
15°	616	627	628	617	608	211
25°	72	82	92	82	73	38
35°	14	15	16	15	14	10
45°	7	7	7	7	7	5
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10894.8	10894.8	10894.8	10894.8	10894.8
2.5°	9827.5	9835.8	9839.1	9848.7	9884.7
5°	7088.4	7015.5	6996.6	7045.0	7051.9
7.5°	4198.9	4213.6	4267.6	4279.6	4236.2
10°	2304.2	2323.1	2320.4	2337.0	2355.9
12.5°	1178.4	1163.6	1159.0	1177.9	1151.6
15°	615.7	627.2	627.7	616.6	608.3
17.5°	331.2	344.5	366.7	348.7	321.0
20°	195.6	207.5	226.5	211.7	199.7
22.5°	120.8	130.5	143.9	132.4	122.7
25°	72.4	82.1	92.2	81.6	73.3
27.5°	42.9	51.2	57.7	50.7	42.4
30°	27.7	32.3	36.4	31.8	28.1
32.5°	19.4	21.2	23.1	21.2	19.4
35°	14.3	15.2	16.1	15.2	13.8
37.5°	11.1	12.0	12.5	11.5	10.6
40°	9.2	9.7	10.1	9.7	9.2
42.5°	7.8	8.3	8.3	8.3	7.8
45°	6.9	6.9	7.4	6.9	6.9
47.5°	6.0	6.0	6.5	6.0	6.0
50°	5.5	5.5	5.5	5.5	5.5
52.5°	5.1	5.1	5.1	5.1	5.1
55°	4.6	4.6	4.6	4.6	4.6
57.5°	4.2	4.2	4.2	4.2	4.2
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.4	1.4	1.4	1.4	1.8
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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