

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: P740908

Luminaire Tested: LD4D08D010-EU4DR150210IC9040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740908
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-EU4DR150210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 809.2 lumens
Efficiency: N/A
Efficacy: 90.9 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

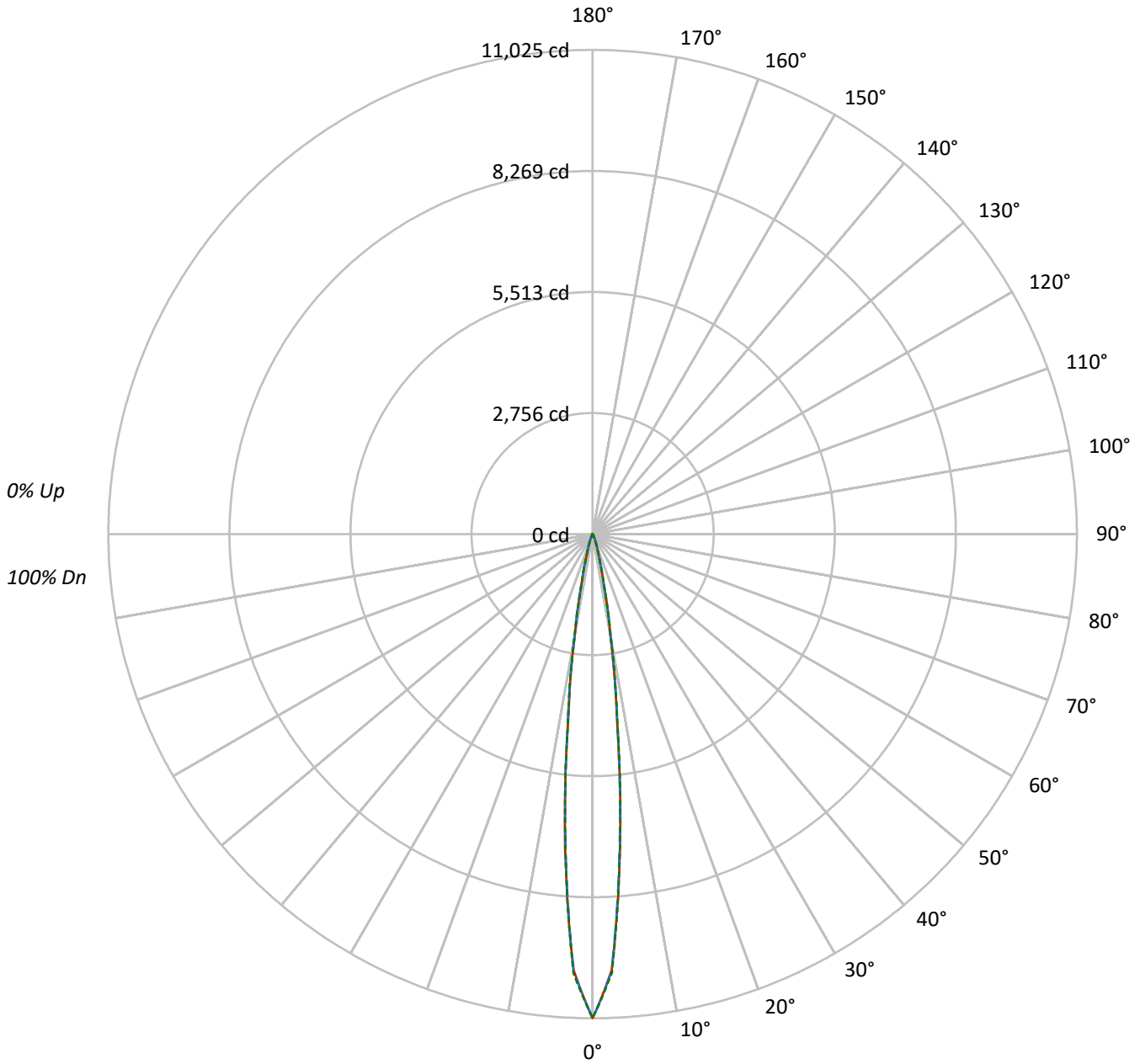


Downlight



TEST NUMBER: P740908
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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°	1240510	1240510	1240510
5°	728984	719543	725234
10°	217565	219086	222445
15°	54120	55171	53469
20°	16193	18754	16536
25°	5710	7268	5780
30°	2097	2763	2134
35°	1053	1184	1017
40°	660	731	660
45°	490	525	490
50°	389	389	389
55°	327	327	327
60°	260	260	260
65°	200	200	200
70°	168	168	168
75°	106	106	144
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 525 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	64.9
10°-20°	215.9	26.7
20°-30°	42.9	5.3
30°-40°	10.7	1.3
40°-50°	5.6	0.7
50°-60°	4.2	0.5
60°-70°	2.9	0.4
70°-80°	1.7	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°	783.5	96.8
0°-40°	794.2	98.2
0°-60°	804.0	99.4
0°-90°	809.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11025	11025	11025	11025	11025	
5°	7173	7099	7080	7129	7136	524
15°	623	635	635	624	616	214
25°	73	83	93	83	74	38
35°	14	15	16	15	14	10
45°	7	7	8	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°	11024.8	11024.8	11024.8	11024.8	11024.8
2.5°	9944.8	9953.2	9956.5	9966.3	10002.7
5°	7173.0	7099.2	7080.1	7129.1	7136.1
7.5°	4249.0	4263.9	4318.5	4330.7	4286.8
10°	2331.7	2350.8	2348.0	2364.9	2384.0
12.5°	1192.5	1177.5	1172.9	1192.0	1165.4
15°	623.1	634.7	635.2	624.0	615.6
17.5°	335.1	348.6	371.0	352.8	324.8
20°	197.9	210.0	229.2	214.2	202.1
22.5°	122.3	132.1	145.6	133.9	124.1
25°	73.3	83.1	93.3	82.6	74.2
27.5°	43.4	51.8	58.3	51.3	42.9
30°	28.0	32.7	36.9	32.2	28.5
32.5°	19.6	21.5	23.3	21.5	19.6
35°	14.5	15.4	16.3	15.4	14.0
37.5°	11.2	12.1	12.6	11.7	10.7
40°	9.3	9.8	10.3	9.8	9.3
42.5°	7.9	8.4	8.4	8.4	7.9
45°	7.0	7.0	7.5	7.0	7.0
47.5°	6.1	6.1	6.5	6.1	6.1
50°	5.6	5.6	5.6	5.6	5.6
52.5°	5.1	5.1	5.1	5.1	5.1
55°	4.7	4.7	4.7	4.7	4.7
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°	3.3	3.3	3.3	3.3	3.3
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°	1.9	1.9	1.9	1.9	1.9
75°	1.4	1.4	1.4	1.4	1.9
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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