

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: P740879

Luminaire Tested: LD4D08D010-EU4DR150210IC9030-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740879
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-EU4DR150210IC9030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 755.0 lumens
Efficiency: N/A
Efficacy: 84.8 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 (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



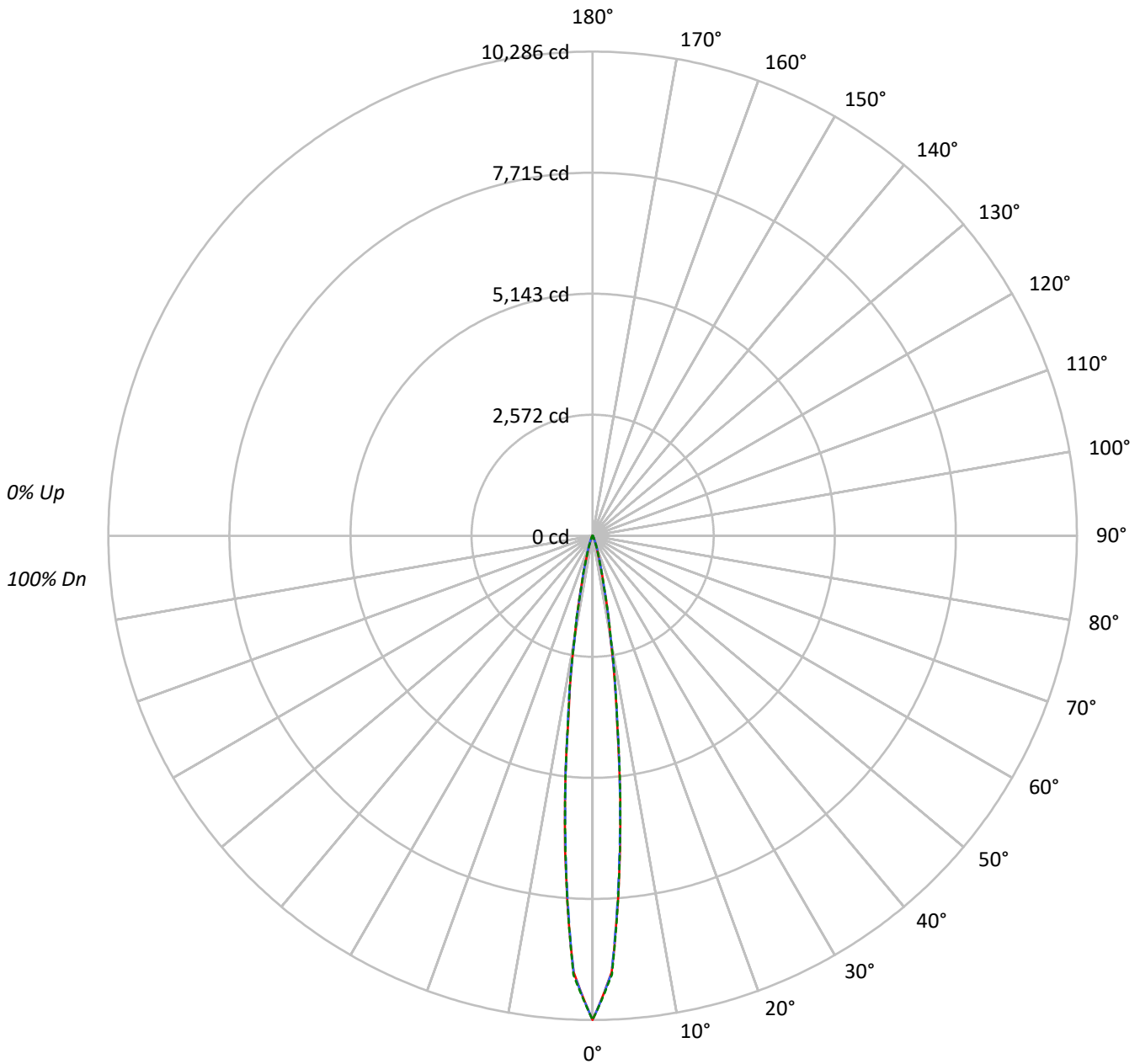
Downlight



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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	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°	1157414	1157414	1157414
5°	680151	671350	676655
10°	202991	204418	207544
15°	50490	51480	49891
20°	15104	17494	15432
25°	5328	6785	5391
30°	1954	2576	1992
35°	980	1104	951
40°	618	682	618
45°	455	490	455
50°	362	362	362
55°	306	306	306
60°	246	246	246
65°	186	186	186
70°	161	161	161
75°	98	98	128
80°	71	71	71
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 490 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.7	64.9
10°-20°	201.4	26.7
20°-30°	40.0	5.3
30°-40°	10.0	1.3
40°-50°	5.2	0.7
50°-60°	3.9	0.5
60°-70°	2.7	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°	731.1	96.8
0°-40°	741.1	98.2
0°-60°	750.2	99.4
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10286	10286	10286	10286	10286	
5°	6692	6624	6606	6652	6658	489
15°	581	592	593	582	574	199
25°	68	78	87	77	69	36
35°	14	14	15	14	13	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10286.3	10286.3	10286.3	10286.3	10286.3
2.5°	9278.7	9286.5	9289.6	9298.7	9332.7
5°	6692.5	6623.7	6605.9	6651.6	6658.1
7.5°	3964.4	3978.3	4029.3	4040.6	3999.7
10°	2175.5	2193.4	2190.8	2206.5	2224.3
12.5°	1112.6	1098.7	1094.3	1112.2	1087.3
15°	581.3	592.2	592.7	582.2	574.4
17.5°	312.7	325.3	346.2	329.2	303.1
20°	184.6	196.0	213.8	199.9	188.6
22.5°	114.1	123.2	135.9	125.0	115.8
25°	68.4	77.5	87.1	77.1	69.2
27.5°	40.5	48.3	54.4	47.9	40.1
30°	26.1	30.5	34.4	30.0	26.6
32.5°	18.3	20.0	21.8	20.0	18.3
35°	13.5	14.4	15.2	14.4	13.1
37.5°	10.5	11.3	11.8	10.9	10.0
40°	8.7	9.1	9.6	9.1	8.7
42.5°	7.4	7.8	7.8	7.8	7.4
45°	6.5	6.5	7.0	6.5	6.5
47.5°	5.7	5.7	6.1	5.7	5.7
50°	5.2	5.2	5.2	5.2	5.2
52.5°	4.8	4.8	4.8	4.8	4.8
55°	4.4	4.4	4.4	4.4	4.4
57.5°	3.9	3.9	3.9	3.9	3.9
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.7
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4
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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