

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: P740906

Luminaire Tested: LD4D08D010-EU4DR150210IC9040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740906
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-EU4DR150210IC9040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 860.1 lumens
Efficiency: N/A
Efficacy: 96.6 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



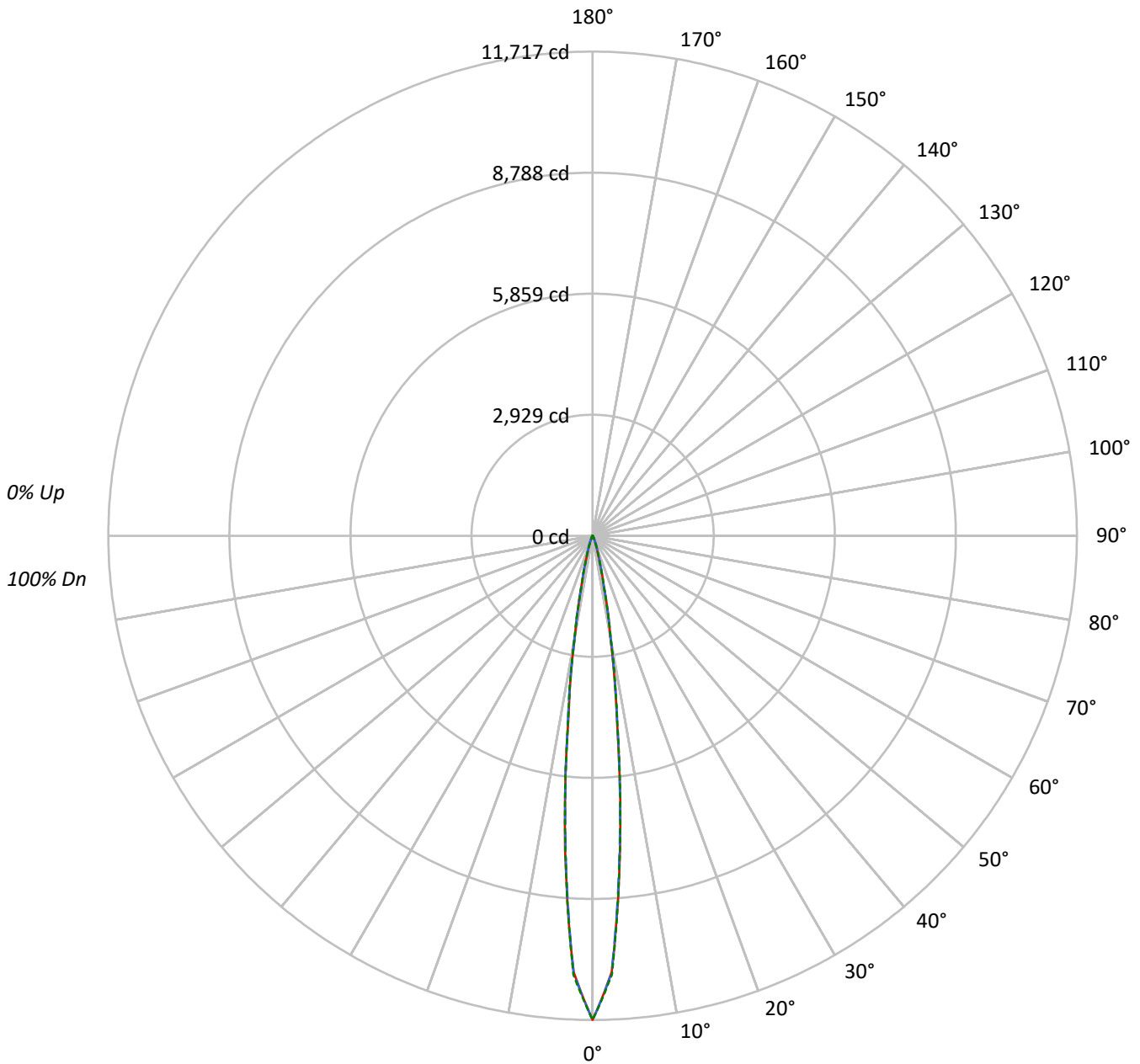
Downlight



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1318419	1318419	1318419
5°	774768	764737	770784
10°	231235	232849	236413
15°	57517	58637	56830
20°	17207	19932	17576
25°	6068	7728	6146
30°	2231	2935	2269
35°	1118	1264	1082
40°	703	774	703
45°	518	553	518
50°	417	417	417
55°	348	348	348
60°	281	281	281
65°	214	214	214
70°	183	183	183
75°	113	113	151
80°	79	79	79
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.8	64.9
10°-20°	229.4	26.7
20°-30°	45.6	5.3
30°-40°	11.4	1.3
40°-50°	6.0	0.7
50°-60°	4.5	0.5
60°-70°	3.2	0.4
70°-80°	1.8	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°	832.8	96.8
0°-40°	844.1	98.1
0°-60°	854.6	99.4
0°-90°	860.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	860.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11717	11717	11717	11717	11717	
5°	7624	7545	7525	7577	7584	557
15°	662	675	675	663	654	227
25°	78	88	99	88	79	41
35°	15	16	17	16	15	10
45°	7	7	8	7	7	6
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	2	2	2	2	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°	11717.2	11717.2	11717.2	11717.2	11717.2
2.5°	10569.4	10578.3	10581.8	10592.2	10630.9
5°	7623.5	7545.1	7524.8	7576.9	7584.3
7.5°	4515.9	4531.7	4589.8	4602.7	4556.0
10°	2478.2	2498.5	2495.5	2513.4	2533.7
12.5°	1267.4	1251.5	1246.5	1266.9	1238.6
15°	662.2	674.6	675.1	663.2	654.3
17.5°	356.1	370.5	394.3	375.0	345.2
20°	210.3	223.2	243.6	227.7	214.8
22.5°	130.0	140.4	154.8	142.4	131.9
25°	77.9	88.3	99.2	87.8	78.9
27.5°	46.1	55.1	62.0	54.6	45.6
30°	29.8	34.7	39.2	34.2	30.3
32.5°	20.8	22.8	24.8	22.8	20.8
35°	15.4	16.4	17.4	16.4	14.9
37.5°	11.9	12.9	13.4	12.4	11.4
40°	9.9	10.4	10.9	10.4	9.9
42.5°	8.4	8.9	8.9	8.9	8.4
45°	7.4	7.4	7.9	7.4	7.4
47.5°	6.4	6.4	6.9	6.4	6.4
50°	6.0	6.0	6.0	6.0	6.0
52.5°	5.5	5.5	5.5	5.5	5.5
55°	5.0	5.0	5.0	5.0	5.0
57.5°	4.5	4.5	4.5	4.5	4.5
60°	4.0	4.0	4.0	4.0	4.0
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.0	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
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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